

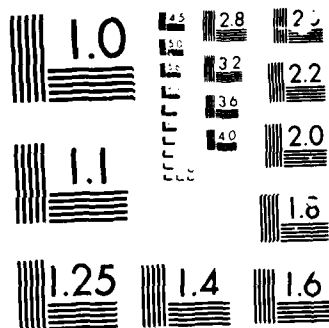
AD-A169 571 PROJECTED DEFENSE PURCHASES DETAIL BY INDUSTRY AND
STATE CALENDAR YEARS 1986 THROUGH 1991(U) WASHINGTON
HEADQUARTERS SERVICES (DOD) DC DIRECTORATE FOR INF.
UNCLASSIFIED 1986 DIOR/86 F/G 15/5

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STATE CALENDAR YEARS 1986 THROUGH 1991(U) WASHINGTON
HEADQUARTERS SERVICES (DOD) DC DIRECTORATE FOR INF.
1986 DIOR/86 F/G 15/5

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DEPARTMENT OF DEFENSE

**PROJECTED DEFENSE PURCHASES
DETAIL BY INDUSTRY AND STATE**

Calendar Years 1986 through 1991

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PROJECTED DEFENSE PURCHASES

DETAIL BY INDUSTRY AND STATE

Calendar Years 1986 through 1991

**Department of Defense
Washington Headquarters Services
Directorate for Information
Operations and Reports**

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FOREWORD

Projected Defense Purchases by Industry and State is issued by the Office of the Secretary of Defense (OSD), Washington Headquarters Services, Directorate of Information Operations and Reports (WHS/DIOR). The estimates were prepared by the Economic Analysis and Resource Planning Division of OSD's Office of Program Analysis and Evaluation.

Preliminary projections of budget authority, rather than the estimates of outlays reported here, were published in February 1986 in Estimated Defense Expenditures for States, Fiscal Year 1987: Preliminary Estimates. This report replaces an earlier DIOR publication, published under the title Estimated Defense Expenditures for States.

The report provides projections of direct and indirect (or defense-related) purchases from fifty major manufacturing industries, and estimates of direct and indirect defense spending in each state. It is divided into four sections:

Section I: Introduction

Section II: Summary Tables

Section III: Projections for Selected Industries

Section IV: Individual State Projections

Section I provides a brief overview of the definitions, budgetary concepts, and expenditure categories used in developing the estimates, and offers some guidelines for interpreting them. Descriptions of tabular formats accompany the projections, which are presented in the remaining three sections.

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SECTION I: INTRODUCTION

This report presents estimates of defense purchases from 50 major Standard Industrial Classification (SIC) industries, and of defense and defense related spending that may occur in each of the 50 states and the District of Columbia during calendar years 1986 through 1991. The estimates are based on the President's budget submission in February 1986, and on the geographic distribution of the major components of defense spending in the recent past. A description of the model and data used to generate the estimates may be found in Defense Purchases: An Introduction to DEIMS and in State-Level Projections of Potential Defense Outlays: An Introduction to RDEIMS.^{1/}

It must be stressed that the figures reported here are projections; they do not necessarily reflect what actual defense expenditures will prove to be in various industries or states in future years. Purchases from particular industries will depend upon the level and composition of the defense budget, and the location of purchases will be determined not only by the level of defense spending, but by the location of industries and by competition among firms within them, both for prime contracts and for subcontracts.^{2/} The projections are therefore intended to serve as benchmarks: They describe the future pattern of defense and defense-related expenditures assuming that each state's shares of the various components of defense activity remain what they have been in the recent past.

Definitions and Coverage

The estimates presented in the following sections consider both "direct" and "indirect" defense expenditures. Direct defense expenditures, as their name implies, are the expenditures that the Department of Defense (DoD) itself makes. These include purchases of goods and services, as well as military and civilian pay.

Indirect (or defense-related) expenditures, on the other hand, represent purchases generated throughout the economy of items used to produce goods bought by DoD. That is, they reflect the purchases of materials, tools, and parts that prime contractors make from their suppliers in order to perform the work for which DoD has contracted. Those sales, in turn, trigger subsequent rounds of transactions, as subcontractors purchase goods and services from their major suppliers and those firms place orders with companies at lower tiers of the production chain. It is to this sequence of purchases of goods and services from subcontractors and lower-tier suppliers that the term "indirect defense purchases" applies.

^{1/} Available from the Office of the Under Secretary of Defense for Research and Engineering, Office of Industrial Base Assessment, Two Skyline Place, Suite 1406, 5203 Leesburg Pike, Falls Church, Virginia, telephone number (202)756-2310.

^{2/} The Directorate of Information Operations and Reports in the Washington Headquarters Services publishes comprehensive data on prime contract awards and personnel expenditures in each state in a volume entitled Atlas/State Data Abstract for the United States. The edition covering the 1985 fiscal year is available from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402

"Indirect defense purchases resulting from pay", shown on the individual tables for each state in Section IV, refers to the production of goods and services consumed by DoD's civilian and military employees. Estimates for these expenditures are included in the state-level tables because the concept has been of interest to planning agencies and others concerned with local economic development. The methods used to generate these estimates are viewed as experimental, however, and are still under development. "Indirect purchases resulting from pay" are not included in the industry estimates reported in Section III.

Budget Concept Employed. The projections are expressed in terms of outlays. Outlays represent disbursements of funds made during the course of a year. In contrast, budget authority is the amount of money that DoD can commit in any given year. Budget authority differs from outlays in that contractual obligations (which must be within the limits set by budget authority) often call for payments to be spread over a period of years, as the work is completed. (Budget authority for development and procurement projects, in particular, tends to be disbursed over a period of several years.) During periods of budget growth, budget authority tends to be greater than outlays. The preliminary estimates provided in Estimated Defense Expenditures for States, Fiscal Year 1987 were stated in terms of budget authority, and are therefore not directly comparable to the more comprehensive estimates provided here.

Coverage. The federal budget is divided into a number of sections (called "functional categories"), each containing programs serving a common purpose. National security-related programs are grouped under Functional Category 050 (National Defense). This category includes all of the Defense Department's military programs and the national security programs administered by other federal departments, such as the Department of Energy. It excludes the costs of nonmilitary programs of the Department of Defense (for example, highway bridge inspection projects conducted by the Army Corps of Engineers).

The projections reported here are based on a narrower budget grouping, Functional Category 051 (Department of Defense, Military). This category includes all of the Defense Department's military programs, but excludes the national security programs administered by other agencies and DoD programs serving civil functions (principally public works projects of the U.S. Army Corps of Engineers).

The defense budget (defined here to include only those programs falling within Functional Category 051) is partitioned into five major accounts: military personnel; operations and maintenance (O&M); procurement; research, development, test, and evaluation (RDT&E); and military construction. The titles of these accounts are reasonably descriptive of the types of expenses they cover.

- o The military personnel account covers the pay of active-duty service members and reservists as well as some other personnel-related expenses, such as permanent change-of-station travel and purchases of military uniforms.
- o The O&M account funds the day-to-day operations of the defense establishment. Money from this account goes to purchase fuel and other consumable items and to pay all but a small share of DoD's civilian work force.

- o The procurement account covers purchases of weapons and equipment, and other military capital goods.
- o The RDT&E account pays for the development and testing of new military systems, and for other research activities and associated civilian pay.
- o The military construction account covers the cost of constructing military facilities and of providing housing for military personnel and their dependents

Military retirement pay is not included in Category 051 as a separate account. Funds representing future military retirement benefits earned during any given year are reflected in the military personnel account but transferred to a trust fund. However, because the geographic distribution of retirement pay is different from the distribution of the rest of the military personnel account, the state-level projections presented here treat military retirement pay as if it were a separate part of Category 051.

Relationship to Prior Reports

This report is an expansion of a report published in May 1985 under the title Estimated Defense Expenditures for States. These reports replace a prior DIOR series entitled Estimated Expenditures for States and Selected Areas. That series provided estimates of defense expenditures for the upcoming fiscal year, but it omitted major procurement spending. This report covers all defense spending in the United States for six calendar years. In addition to projections of direct defense purchases, it provides estimates of indirect expenditures resulting from those purchases and from the salaries and wages of DoD personnel.

A related set of estimates were reported in February 1986 under the title Estimated Defense Expenditures for States, Fiscal Year 1987: Preliminary Projections. That report also provided state-level estimates of defense spending for fiscal year 1986, but the estimates were stated in terms of budget authority, rather than outlays

Limitations

The projections of defense purchases in Section III show direct and indirect purchases from various SIC industries. They attempt to include all defense purchases, whether or not they are made domestically.

By contrast, the state level projections reported here include only purchases and pay estimated to be made in the 50 states and the District of Columbia. They exclude expenditures made abroad or in U.S. territories, the pay of military personnel stationed on ships in foreign waters, and expenditures for imported goods. In order to factor out such expenditures, historical data showing the distribution of military personnel were used and an assumption was made about the level of defense imports. Specifically, it was assumed that, for the products of any given industry, imports will constitute the same share of defense purchases as they will of civilian purchases. But because the Defense Department is required to channel most of its purchases to domestic firms, and because defense purchases often represent specialized products, the percentage of defense purchases accounted for by imports may be lower than this assumption suggests. To the extent that this is the case, the projections will underestimate the proportion of defense expenditures that will occur in the United States.

Comparison With the May 1985 Estimates

The estimates presented here differ from those published in the May 1985 edition of this report for several reasons. First, planned budgets have changed since the FY 1986 budget submission in February 1985. Second, the data used in making the state-level projections have been revised:

- o The estimated shares of particular activities that take place in each state have been revised to reflect more recent data.
- o The proportion of defense and defense related activities assumed to be made abroad or representing imported goods have been refined.

Finally, the input/output model used to compute estimates of indirect purchases has been substantially revised to reflect more recent data, affecting the magnitude and distribution of these estimates. Differences between the estimates reported here and those previously reported thus reflect data revisions as well as budgetary changes.

SECTION II: SUMMARY TABLES

The summary tables that follow provide an overview of the state-level distribution of estimated defense expenditures in calendar years 1986 through 1991.

The first three tables present estimates of direct defense expenditures, first in the aggregate and then by selected budget accounts. The first table records the amount of outlays (for purchases and pay) projected to be made in each state during each year of the forecast period. (The estimates assume that the state shares of underlying components of pay and purchases remain at their recent levels.) The next two tables break out these estimates by budget category, the first showing outlays arising from the procurement and RDT&E accounts and the second showing outlays arising from the remaining accounts.

The last two tables in the series present estimates of indirect defense expenditures. The first of these covers indirect expenditures arising from purchases made by the Department of Defense, while the second presents the indirect expenditures arising from the wages and salaries of DoD personnel and military retirement pay.

ESTIMATES OF DIRECT DEFENSE PURCHASES AND PAY
(MILLIONS OF 1985 DOLLARS)

STATE	1986	1987	1988	1989	1990	1991
ALABAMA	3,239	3,272	3,332	3,471	3,612	3,748
ALASKA	956	962	987	1,034	1,074	1,114
ARIZONA	3,072	3,132	3,207	3,332	3,462	3,587
ARKANSAS	1,326	1,331	1,362	1,430	1,495	1,554
CALIFORNIA	46,193	47,301	48,513	50,627	52,867	55,019
COLORADO	3,079	3,143	3,220	3,339	3,465	3,598
CONNECTICUT	6,682	6,768	6,860	7,059	7,286	7,503
DELAWARE	417	420	426	442	458	473
DIST. OF COLUM.	1,517	1,552	1,594	1,670	1,744	1,820
FLORIDA	10,707	10,911	11,215	11,678	12,144	12,599
GEORGIA	5,588	5,645	5,778	6,008	6,199	6,396
HAWAII	2,438	2,443	2,491	2,586	2,676	2,773
IDAHO	303	303	309	320	328	338
ILLINOIS	4,461	4,525	4,629	4,852	5,067	5,269
INDIANA	3,799	3,791	3,819	3,988	4,197	4,397
IOWA	815	832	856	901	946	986
KANSAS	2,956	2,994	3,031	3,112	3,193	3,279
KENTUCKY	1,933	1,938	1,973	2,054	2,131	2,207
LOUISIANA	3,230	3,222	3,290	3,447	3,572	3,709
MAINE	1,174	1,181	1,213	1,277	1,340	1,405
MARYLAND	6,450	6,611	6,815	7,165	7,524	7,860
MASSACHUSETTS	7,835	8,200	8,459	8,859	9,297	9,723
MICHIGAN	3,236	3,244	3,285	3,415	3,556	3,690
MINNESOTA	2,502	2,559	2,624	2,753	2,896	3,023
MISSISSIPPI	2,990	2,944	2,976	3,094	3,216	3,340
MISSOURI	6,308	6,444	6,622	6,887	7,119	7,342
MONTANA	274	276	282	295	305	315
NEBRASKA	721	723	737	761	785	811
NEVADA	540	541	552	570	585	602
NEW HAMPSHIRE	1,230	1,270	1,315	1,391	1,472	1,546
NEW JERSEY	5,328	5,459	5,612	5,893	6,173	6,440
NEW MEXICO	1,352	1,374	1,408	1,468	1,524	1,582
NEW YORK	10,902	11,191	11,513	12,057	12,608	13,125
NORTH CAROLINA	3,993	4,007	4,085	4,217	4,349	4,493
NORTH DAKOTA	385	386	394	408	421	436
OHIO	6,728	6,862	6,993	7,245	7,498	7,761
OKLAHOMA	2,210	2,217	2,257	2,353	2,443	2,532
OREGON	799	808	826	861	892	925
PENNSYLVANIA	7,267	7,421	7,603	7,964	8,321	8,657
RHODE ISLAND	724	739	758	790	823	856
SOUTH CAROLINA	2,991	2,993	3,047	3,158	3,261	3,370
SOUTH DAKOTA	259	260	266	276	285	295
TENNESSEE	2,161	2,193	2,244	2,345	2,440	2,526
TEXAS	15,225	15,418	15,688	16,290	16,911	17,512
UTAH	1,576	1,605	1,642	1,727	1,810	1,889
VERMONT	326	340	346	363	381	396
VIRGINIA	14,051	14,219	14,613	15,232	15,818	16,440
WASHINGTON	6,540	6,726	6,919	7,169	7,397	7,677
WEST VIRGINIA	414	421	433	455	474	491
WISCONSIN	1,725	1,723	1,740	1,808	1,881	1,958
WYOMING	198	197	201	208	215	222
TOTAL, US	221,124	225,037	230,360	240,100	249,936	259,611

ESTIMATES OF DIRECT DEFENSE PURCHASES AND PAY
PROCUREMENT AND RDT&E
(MILLIONS OF 1985 DOLLARS)

STATE	1986	1987	1988	1989	1990	1991
ALABAMA	719	756	777	806	844	883
ALASKA	35	37	39	41	42	44
ARIZONA	1,404	1,465	1,510	1,569	1,640	1,707
ARKANSAS	349	352	359	380	406	427
CALIFORNIA	25,673	26,821	27,696	28,874	30,263	31,594
COLORADO	1,065	1,132	1,173	1,218	1,278	1,343
CONNECTICUT	4,291	4,383	4,439	4,515	4,602	4,701
DELAWARE	46	49	52	54	56	57
DIST. OF COLUM.	293	327	348	363	380	401
FLORIDA	4,177	4,397	4,590	4,819	5,073	5,315
GEORGIA	1,392	1,445	1,487	1,521	1,545	1,579
HAWAII	68	74	78	80	81	85
IDAHO	5	6	6	6	7	7
ILLINOIS	1,588	1,656	1,713	1,814	1,918	2,012
INDIANA	2,187	2,180	2,189	2,282	2,423	2,560
IOWA	417	434	451	478	508	535
KANSAS	1,474	1,520	1,538	1,562	1,592	1,628
KENTUCKY	177	185	194	208	219	229
LOUISIANA	762	755	769	793	795	816
MAINE	407	413	425	444	457	477
MARYLAND	2,868	3,031	3,175	3,353	3,555	3,743
MASSACHUSETTS	5,638	6,005	6,233	6,519	6,856	7,191
MICHIGAN	1,704	1,712	1,727	1,785	1,862	1,937
MINNESOTA	1,692	1,749	1,802	1,895	2,006	2,102
MISSISSIPPI	865	831	819	824	829	849
MISSOURI	3,644	3,775	3,894	4,012	4,124	4,239
MONTANA	14	15	16	17	18	18
NEBRASKA	70	74	78	82	86	91
NEVADA	22	24	25	26	27	29
NEW HAMPSHIRE	651	691	726	775	830	880
NEW JERSEY	2,680	2,812	2,923	3,074	3,235	3,392
NEW MEXICO	265	287	299	310	323	339
NEW YORK	6,967	7,267	7,530	7,884	8,264	8,628
NORTH CAROLINA	480	507	527	557	591	624
NORTH DAKOTA	20	20	21	21	22	24
OHIO	3,746	3,882	3,961	4,063	4,185	4,329
OKLAHOMA	208	219	226	236	246	258
OREGON	223	232	238	249	260	272
PENNSYLVANIA	3,298	3,454	3,578	3,739	3,909	4,074
RHODE ISLAND	254	270	281	294	309	324
SOUTH CAROLINA	196	205	212	223	232	242
SOUTH DAKOTA	9	10	10	11	12	12
TENNESSEE	609	642	668	703	737	768
TEXAS	5,178	5,409	5,559	5,761	6,006	6,245
UTAH	445	475	494	518	543	569
VERMONT	204	217	222	234	246	257
VIRGINIA	3,696	3,887	4,089	4,268	4,413	4,604
WASHINGTON	2,898	3,083	3,193	3,271	3,344	3,473
WEST VIRGINIA	92	97	101	107	111	115
WISCONSIN	916	917	923	961	1,003	1,050
WYOMING	5	5	5	6	6	6
TOTAL, US	96,089	100,191	103,390	107,602	112,321	117,086

ESTIMATES OF DIRECT DEFENSE PURCHASES AND PAY
EXCLUDING PROCUREMENT AND RDT&E
(MILLIONS OF 1985 DOLLARS)

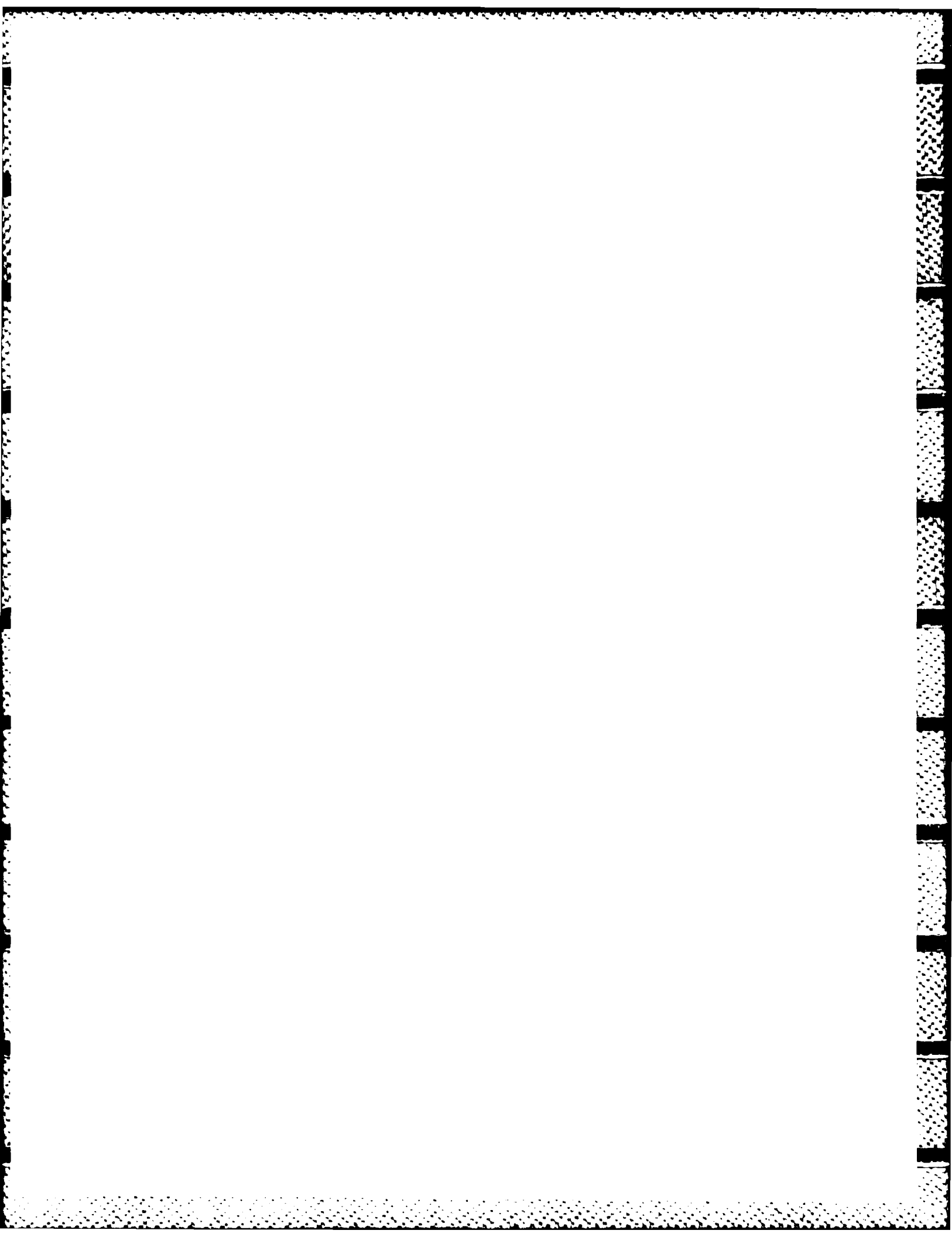
STATE	1986	1987	1988	1989	1990	1991
ALABAMA	2,521	2,516	2,555	2,665	2,767	2,865
ALASKA	921	925	948	993	1,032	1,071
ARIZONA	1,668	1,667	1,697	1,763	1,822	1,880
ARKANSAS	977	979	1,003	1,049	1,089	1,127
CALIFORNIA	20,520	20,479	20,817	21,753	22,604	23,425
COLORADO	2,014	2,011	2,047	2,121	2,187	2,255
CONNECTICUT	2,391	2,384	2,421	2,544	2,683	2,801
DELAWARE	372	371	375	388	402	415
DIST. OF COLUM.	1,224	1,224	1,246	1,307	1,364	1,419
FLORIDA	6,530	6,515	6,624	6,859	7,070	7,284
GEORGIA	4,196	4,200	4,291	4,487	4,654	4,817
HAWAII	2,370	2,369	2,413	2,506	2,595	2,688
IDAHO	298	298	304	313	322	331
ILLINOIS	2,873	2,869	2,916	3,038	3,150	3,257
INDIANA	1,612	1,611	1,630	1,706	1,774	1,837
IOWA	398	398	406	423	437	451
KANSAS	1,482	1,474	1,493	1,550	1,601	1,651
KENTUCKY	1,756	1,752	1,779	1,846	1,912	1,977
LOUISIANA	2,468	2,467	2,522	2,654	2,777	2,892
MAINE	767	768	788	833	883	928
MARYLAND	3,583	3,580	3,639	3,812	3,969	4,116
MASSACHUSETTS	2,196	2,195	2,226	2,339	2,441	2,531
MICHIGAN	1,531	1,532	1,558	1,630	1,694	1,753
MINNESOTA	811	810	821	858	890	921
MISSISSIPPI	2,125	2,113	2,156	2,269	2,387	2,491
MISSOURI	2,664	2,669	2,728	2,875	2,995	3,103
MONTANA	260	261	267	278	288	297
NEBRASKA	651	649	660	680	699	720
NEVADA	517	517	527	543	558	573
NEW HAMPSHIRE	579	579	589	616	642	666
NEW JERSEY	2,648	2,647	2,689	2,819	2,938	3,048
NEW MEXICO	1,087	1,088	1,109	1,158	1,201	1,243
NEW YORK	3,935	3,924	3,982	4,173	4,344	4,497
NORTH CAROLINA	3,513	3,500	3,558	3,659	3,759	3,869
NORTH DAKOTA	366	366	373	387	399	413
OHIO	2,982	2,980	3,031	3,182	3,313	3,432
OKLAHOMA	2,001	1,998	2,031	2,117	2,196	2,275
OREGON	575	576	587	612	633	653
PENNSYLVANIA	3,968	3,967	4,025	4,225	4,412	4,584
RHODE ISLAND	470	469	477	496	514	531
SOUTH CAROLINA	2,795	2,788	2,835	2,935	3,029	3,128
SOUTH DAKOTA	249	250	256	266	274	283
TENNESSEE	1,551	1,551	1,576	1,643	1,703	1,758
TEXAS	10,047	10,010	10,128	10,528	10,905	11,268
UTAH	1,130	1,131	1,148	1,210	1,267	1,321
VERMONT	122	123	124	129	134	139
VIRGINIA	10,356	10,332	10,524	10,963	11,404	11,836
WASHINGTON	3,642	3,644	3,726	3,898	4,053	4,204
WEST VIRGINIA	322	324	332	349	363	376
WISCONSIN	809	806	817	848	879	908
WYOMING	193	192	196	202	209	215
TOTAL, US	125,034	124,846	126,971	132,498	137,615	142,524

ESTIMATES OF INDIRECT DEFENSE PURCHASES
RESULTING FROM DIRECT DEFENSE PURCHASES
(MILLIONS OF 1985 DOLLARS)

STATE	1986	1987	1988	1989	1990	1991
ALABAMA	2,050	2,117	2,190	2,293	2,379	2,454
ALASKA	266	271	278	292	305	316
ARIZONA	2,109	2,208	2,305	2,403	2,498	2,578
ARKANSAS	1,185	1,226	1,279	1,350	1,413	1,468
CALIFORNIA	22,929	23,863	24,779	25,813	26,728	27,469
COLORADO	2,169	2,245	2,315	2,395	2,470	2,536
CONNECTICUT	4,430	4,555	4,666	4,792	4,888	4,969
DELAWARE	352	362	376	394	408	421
DIST. OF COLUM.	485	506	529	558	580	602
FLORIDA	5,098	5,351	5,604	5,883	6,126	6,330
GEORGIA	3,065	3,166	3,289	3,434	3,541	3,633
HAWAII	374	316	331	351	366	379
IDAHO	330	342	358	377	392	404
ILLINOIS	6,126	6,259	6,392	6,625	6,802	6,943
INDIANA	4,301	4,370	4,460	4,610	4,712	4,807
IOWA	1,131	1,162	1,208	1,254	1,282	1,304
KANSAS	1,950	1,963	1,990	2,033	2,065	2,089
KENTUCKY	1,675	1,703	1,739	1,815	1,881	1,940
LOUISIANA	2,624	2,635	2,708	2,817	2,925	3,032
MAINE	704	733	761	791	819	850
MARYLAND	2,972	3,081	3,192	3,337	3,462	3,564
MASSACHUSETTS	5,724	5,988	6,241	6,522	6,774	6,980
MICHIGAN	4,703	4,801	4,896	5,055	5,178	5,297
MINNESOTA	2,424	2,501	2,599	2,720	2,826	2,912
MISSISSIPPI	1,645	1,674	1,726	1,806	1,869	1,935
MISSOURI	3,790	3,883	3,992	4,119	4,200	4,267
MONTANA	239	243	246	256	266	276
NEBRASKA	620	647	675	707	733	755
NEVADA	299	310	322	337	352	368
NEW HAMPSHIRE	928	991	1,049	1,111	1,168	1,215
NEW JERSEY	4,816	5,015	5,219	5,466	5,678	5,860
NEW MEXICO	731	745	761	793	824	851
NEW YORK	9,749	10,117	10,503	10,952	11,326	11,631
NORTH CAROLINA	2,816	2,970	3,117	3,281	3,419	3,541
NORTH DAKOTA	170	174	181	188	195	203
OHIO	7,235	7,406	7,623	7,873	8,053	8,217
OKLAHOMA	1,826	1,819	1,849	1,915	1,995	2,066
OREGON	1,131	1,185	1,236	1,296	1,354	1,411
PENNSYLVANIA	7,035	7,212	7,432	7,729	7,945	8,128
RHODE ISLAND	625	653	679	711	738	761
SOUTH CAROLINA	1,850	1,927	2,011	2,123	2,218	2,303
SOUTH DAKOTA	195	204	216	227	237	247
TENNESSEE	2,447	2,519	2,586	2,690	2,779	2,858
TEXAS	11,846	11,956	12,191	12,626	13,096	13,499
UTAH	986	1,011	1,036	1,066	1,087	1,104
VERMONT	406	434	456	477	497	513
VIRGINIA	4,046	4,184	4,355	4,577	4,757	4,925
WASHINGTON	3,389	3,513	3,641	3,739	3,779	3,814
WEST VIRGINIA	1,022	1,056	1,094	1,152	1,202	1,250
WISCONSIN	2,575	2,665	2,734	2,830	2,909	2,982
WYOMING	408	404	408	419	441	463
TOTAL, US	151,929	156,643	161,824	168,381	173,941	178,719

**ESTIMATES OF INDIRECT DEFENSE PURCHASES
RESULTING FROM DIRECT DEFENSE PAY
(MILLIONS OF 1985 DOLLARS)**

STATE	1986	1987	1988	1989	1990	1991
ALABAMA	1,408	1,394	1,408	1,441	1,479	1,519
ALASKA	174	173	171	174	177	182
ARIZONA	1,141	1,154	1,185	1,228	1,275	1,325
ARKANSAS	890	883	896	921	949	979
CALIFORNIA	10,728	10,760	10,958	11,298	11,663	12,047
COLORADO	1,610	1,636	1,678	1,738	1,800	1,865
CONNECTICUT	1,381	1,396	1,424	1,466	1,509	1,553
DELAWARE	345	344	351	360	370	381
DIST. OF COLUM.	498	490	493	507	519	532
FLORIDA	4,786	4,839	4,938	5,095	5,268	5,454
GEORGIA	2,690	2,685	2,732	2,809	2,891	2,976
HAWAII	469	471	478	491	505	518
IDAHO	367	368	373	384	396	407
ILLINOIS	4,716	4,638	4,666	4,766	4,874	4,986
INDIANA	2,201	2,190	2,215	2,261	2,310	2,363
IOWA	1,230	1,214	1,229	1,247	1,264	1,285
KANSAS	1,059	1,038	1,050	1,072	1,097	1,124
KENTUCKY	1,282	1,261	1,261	1,281	1,310	1,342
LOUISIANA	1,551	1,538	1,558	1,591	1,634	1,686
MAINE	422	421	426	435	445	454
MARYLAND	1,784	1,768	1,785	1,829	1,871	1,916
MASSACHUSETTS	2,672	2,646	2,665	2,732	2,807	2,878
MICHIGAN	3,603	3,570	3,601	3,667	3,757	3,856
MINNESOTA	1,863	1,845	1,869	1,917	1,966	2,019
MISSISSIPPI	765	755	759	772	790	809
MISSOURI	2,105	2,090	2,115	2,162	2,211	2,259
MONTANA	271	273	277	285	294	303
NEBRASKA	796	799	816	841	868	895
NEVADA	461	470	483	502	524	548
NEW HAMPSHIRE	392	398	410	425	440	457
NEW JERSEY	3,425	3,409	3,454	3,546	3,646	3,752
NEW MEXICO	483	480	487	502	520	537
NEW YORK	7,563	7,497	7,570	7,757	7,949	8,146
NORTH CAROLINA	3,004	2,991	3,031	3,109	3,193	3,281
NORTH DAKOTA	253	256	264	273	283	293
OHIO	4,339	4,320	4,354	4,427	4,513	4,609
OKLAHOMA	1,193	1,174	1,184	1,209	1,246	1,288
OREGON	954	955	963	985	1,011	1,043
PENNSYLVANIA	4,656	4,627	4,680	4,785	4,897	5,016
RHODE ISLAND	399	397	401	412	424	435
SOUTH CAROLINA	1,413	1,410	1,429	1,470	1,513	1,559
SOUTH DAKOTA	311	313	320	330	341	351
TENNESSEE	1,933	1,912	1,921	1,957	2,003	2,053
TEXAS	7,088	6,991	7,067	7,248	7,463	7,687
UTAH	578	574	583	602	623	646
VERMONT	197	197	199	203	208	213
VIRGINIA	2,337	2,324	2,359	2,426	2,492	2,560
WASHINGTON	1,544	1,528	1,556	1,595	1,637	1,683
WEST VIRGINIA	554	556	565	580	598	617
WISCONSIN	2,106	2,097	2,111	2,146	2,191	2,242
WYOMING	223	223	229	237	249	261
TOTAL, US	98,212	97,737	98,997	101,492	104,258	107,191



SECTION III: PROJECTIONS FOR SELECTED INDUSTRIES

These tables present projected purchases for defense and defense-related purchases from selected manufacturing industries. Projections for fifty such industries are included. A separate table is provided for each industry. The industries were chosen on the basis of their projected volume of sales in the defense market over the forecast period.

The upper portion of each table contains projections of direct and indirect defense purchases for Calendar Years 1985 to 1991. The center portion of the table indicates the amount of indirect defense purchases estimated to result from DoD purchases from each of eleven industrial groupings. At the bottom of the table, total purchases resulting from foreign military sales are shown.

The industrial sectors reported in Section III are at the 4-digit SIC level; the industrial sectors shown in the state tables of Section IV, however, are aggregates (at the 3-digit level) of the 4-digit SIC industries. Industrial projections are made for 429 separate industries. For the purposes of the state-level reports, these are grouped into 79 industrial sectors. Thus, industrial sector 60, "Aircraft and Parts", used in the state tables, includes three industries: industry 351, "Aircraft"; industry 352, "Aircraft Engines and Engine Parts"; and industry 353, "Aircraft Parts and Equipment, NEC."

PROJECTED DEFENSE PURCHASES OF
50. COMPLETE GUIDED MISSILES, 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
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SUMMARY

DEFENSE PURCHASES								
DIRECT (a)	8,026	8,637	9,472	10,658	12,126	13,971	15,839	12.89
INDIRECT (b)	494	511	524	571	682	835	974	13.77
TOTAL	8,520	9,148	9,996	11,229	12,808	14,806	16,813	12.94

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	444	465	478	527	630	775	900	14.12
AMMUNITION	0	0	0	0	0	0	0	N/A
TANKS AND TANK COMPONENTS	0	0	0	0	0	0	0	N/A
OTHER ORDNANCE	2	2	2	0	0	0	3	8.45
COMMUNICATIONS EQUIPMENT	22	21	22	21	25	32	37	11.99
OTHER ELECTRONIC EQUIPMENT	0	0	0	0	0	0	0	N/A
MOTOR VEHICLES	0	0	0	0	0	0	0	N/A
AIRCRAFT AND PARTS	16	17	15	14	15	19	23	6.23
AIRCRAFT ENGINES AND PARTS	2	2	2	2	2	3	3	8.45
SHIPBUILDING	4	4	4	5	5	5	6	8.45
ALL OTHER	4	0	1	2	5	1	2	N/A
TOTAL INDIRECT (d)	494	511	524	571	682	835	974	13.77

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	404	415	420	408	404	401	403	-0.59
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
51. AMMUNITION, EX SMALL ARMS, NEC, 1985-1991
(In millions of 1985 dollars)

AVG ANN
%GROWTH
1986-1991

1985 1986 1987 1988 1989 1990 1991

SUMMARY

DEFENSE PURCHASES	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
DIRECT (a)	3,083	3,468	3,550	3,572	3,782	4,195	4,720	6.36
INDIRECT (b)	511	574	523	507	568	652	756	5.66

TOTAL 3,594 4,042 4,073 4,079 4,350 4,847 5,476 6.26

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	0	0	0	0	0	0	0	N/A
AMMUNITION	492	554	505	489	547	630	729	5.64
TANKS AND TANK COMPONENTS	0	0	0	0	0	0	0	N/A
OTHER ORDNANCE	5	5	5	4	6	6	6	3.71
COMMUNICATIONS EQUIPMENT	10	12	11	11	13	14	17	7.21
OTHER ELECTRONIC EQUIPMENT	0	0	0	0	0	0	0	N/A
MOTOR VEHICLES	0	0	0	0	0	0	0	N/A
AIRCRAFT AND PARTS	2	2	2	2	2	2	2	0.00
AIRCRAFT ENGINES AND PARTS	0	0	0	0	0	0	0	N/A
SHIPBUILDING	0	0	0	0	0	0	0	N/A
ALL OTHER	2	1	0	1	0	0	2	14.87

TOTAL INDIRECT (d) 511 574 523 507 568 652 756 5.66

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	510	533	541	536	541	547	550	0.63
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
52. TANKS & TANK COMPONENT, 1985-1991
(In millions of 1985 dollars)

AVG ANN
%GROWTH
1986-1991

1985 1986 1987 1988 1989 1990 1991

SUMMARY

DEFENSE PURCHASES
DIRECT (a)
INDIRECT (b)

1,274 1,418 1,459 1,505 1,600 1,595 1,442 0.34
736 839 827 834 876 890 843 0.10
2,010 2,257 2,285 2,339 2,476 2,485 2,285 0.25

TOTAL

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES
AMMUNITION
TANKS AND TANK COMPONENTS
OTHER ORDNANCE
COMMUNICATIONS EQUIPMENT
OTHER ELECTRONIC EQUIPMENT
MOTOR VEHICLES
AIRCRAFT AND PARTS
AIRCRAFT ENGINES AND PARTS
SHIPBUILDING
ALL OTHER

0 0 0 0 0 0 0 N/A
6 7 8 8 8 9 9 5.15
699 798 786 791 830 840 790 -0.20
13 13 14 13 13 14 15 2.90
1 1 2 2 2 2 2 14.87
0 0 0 0 0 0 0 N/A
0 0 0 0 0 0 0 N/A
1 1 2 2 2 2 2 14.87
6 7 8 6 7 9 9 5.15
0 0 0 0 0 0 0 N/A
10 12 7 12 14 14 16 5.92

TOTAL INDIRECT (d)

736 839 827 834 876 890 843 0.10

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT AND INDIRECT) 1985 1986 1987 1988 1989 1990 1991

440 471 487 480 475 471 473 1.24

Source: Defense Department, Office of Defense Management and Control, System (DEFMISC), March 31, 1986

PROJECTED DEFENSE PURCHASES OF

54 SMALL ARMS AMMUNITION, 1985-1991

(in millions of 1985 dollars)

AVG ANN
%GROWTH
1986-1991

1985 1986 1987 1988 1989 1990 1991

SUMMARY

DEFENSE PURCHASES
DIRECT (a)
INDIRECT (b)

11.19
5.92

TOTAL

11.07

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES
AMMUNITION
TANKS AND TANK COMPONENTS
OTHER ORDNANCE
COMMUNICATIONS EQUIPMENT
OTHER ELECTRONIC EQUIPMENT
MOTOR VEHICLES
AIRCRAFT AND PARTS
AIRCRAFT ENGINES AND PARTS
SHIPBUILDING
ALL OTHER

N/A
4.56
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
8.45

TOTAL INDIRECT (d)

5.92

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)

0.85

Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

**AVG ANN
%GROWTH
986-1991**

[illegible]

DEFENSE PURCHASES
DIRECT (a)
INDIRECT (b)

INVESTMENT PURCHASES							
DIRECT (a)	1,903	1,846	1,811	1,807	1,839	1,911	2,034
INDIRECT (b)	263	264	237	220	221	228	240
TOTAL	2,166	2,110	2,048	2,027	2,060	2,139	2,274
TOTAL							1,511

MISSILES
AMMUNITION
TANKS AND
OTHER ORDNANCE
COMMUNICATIONS
OTHER ELECTRONIC
MOTOR VEHICLES
AIRCRAFT
AIRCRAFT
SHIPBUILDING
ALL OTHER

[illegible]

FMS (DIRECT PLUS INDIRECT)

FMS (DIRECT PLUS INDIRECT)	336	352	365	369	377	386	386	1.86
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF

168. INORGANIC & ORGANIC CHEM, 1985-1991

(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
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SUMMARY

DEFENSE PURCHASES

DIRECT (a)

INDIRECT (b)

TOTAL

3,967	3,865	3,871	4,255	4,850	5,347	5,853	8.65
4,348	4,425	4,484	4,900	5,484	6,011	6,611	8.36
8,315	8,290	8,355	9,155	10,334	11,358	12,464	8.50

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	72	74	75	82	93	108	126	11.23
AMMUNITION	78	88	86	86	93	104	117	5.86
TANKS AND TANK COMPONENTS	22	23	21	22	23	22	23	0.00
OTHER ORDNANCE	32	31	29	30	32	33	35	2.46
COMMUNICATIONS EQUIPMENT	573	602	627	697	791	891	1,002	10.73
OTHER ELECTRONIC EQUIPMENT	161	180	197	222	252	287	325	12.54
MOTOR VEHICLES	98	100	92	92	99	110	124	4.40
AIRCRAFT AND PARTS	221	227	231	250	273	295	322	7.24
AIRCRAFT ENGINES AND PARTS	96	98	96	102	109	115	124	4.82
SHIPBUILDING	197	194	189	202	221	238	264	6.36
ALL OTHER	2,798	2,808	2,841	3,115	3,498	3,808	4,149	8.12
TOTAL INDIRECT (d)	4,348	4,425	4,484	4,900	5,484	6,011	6,611	8.36

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	279	289	293	296	301	305	309	1.35
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
178. PLASTIC MATLS & RESINS, 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
DEFENSE PURCHASES DIRECT (a)	92	89	93	101	103	103	107	3.75
INDIRECT (b)	1,347	1,396	1,443	1,585	1,772	1,968	2,194	9.46
TOTAL	1,439	1,485	1,536	1,686	1,875	2,071	2,301	9.15

SUMMARY

DEFENSE PURCHASES DIRECT (a)	92	89	93	101	103	103	107	3.75
INDIRECT (b)	1,347	1,396	1,443	1,585	1,772	1,968	2,194	9.46

TOTAL

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	38	41	41	44	50	58	70	11.29
AMMUNITION	38	42	43	43	46	52	58	6.67
TANKS AND TANK COMPONENTS	11	12	11	12	12	11	12	0.00
OTHER ORDNANCE	11	10	10	10	11	11	12	3.71
COMMUNICATIONS EQUIPMENT	336	350	367	411	466	525	592	11.08
OTHER ELECTRONIC EQUIPMENT	101	114	125	140	161	183	206	12.56
MOTOR VEHICLES	48	50	47	47	50	57	63	4.73
AIRCRAFT AND PARTS	100	102	105	115	125	136	150	8.02
AIRCRAFT ENGINES AND PARTS	27	28	28	30	33	34	36	5.15
SHIPBUILDING	59	58	58	62	70	74	84	7.69
ALL OTHER	578	589	608	671	748	827	911	9.11

TOTAL INDIRECT (d)

1,347	1,396	1,443	1,585	1,772	1,968	2,194	9.46
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FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	108	113	114	116	117	120	122	1.54
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
188. PETROLEUM REFINING, 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
DEFENSE PURCHASES								
DIRECT (a)	3,591	2,796	2,551	2,733	3,066	3,436	3,873	6.73
INDIRECT (b)	3,863	3,170	2,891	3,154	3,529	3,967	4,486	7.19
TOTAL	7,454	5,966	5,442	5,887	6,595	7,403	8,359	6.98

SUMMARY

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	61	50	45	51	57	68	81	10.13
AMMUNITION	99	89	78	79	88	99	115	5.26
TANKS AND TANK COMPONENTS	17	15	12	12	12	13	14	-1.37
OTHER ORDNANCE	34	26	22	23	25	26	29	2.21
COMMUNICATIONS EQUIPMENT	380	320	298	332	380	438	506	9.60
OTHER ELECTRONIC EQUIPMENT	118	106	104	118	137	159	184	11.66
MOTOR VEHICLES	55	44	37	38	42	46	54	4.18
AIRCRAFT AND PARTS	224	185	170	186	203	227	254	6.54
AIRCRAFT ENGINES AND PARTS	161	133	119	127	138	151	168	4.78
SHIPBUILDING	180	143	126	136	151	167	191	5.96
ALL OTHER	2,534	2,059	1,880	2,052	2,296	2,573	2,890	7.02
TOTAL INDIRECT (d)	3,863	3,170	2,891	3,154	3,529	3,967	4,486	7.19

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	154	129	115	113	114	118	123	-0.95
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF

197. MISC PLASTIC PROD., 1985-1991

(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
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SUMMARY

DEFENSE PURCHASES

DIRECT (a)

INDIRECT (b)

TOTAL

6.84
10.41

10.32

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES

AMMUNITION

TANKS AND TANK COMPONENTS

OTHER ORDNANCE

COMMUNICATIONS EQUIPMENT

OTHER ELECTRONIC EQUIPMENT

MOTOR VEHICLES

AIRCRAFT AND PARTS

AIRCRAFT ENGINES AND PARTS

SHIPBUILDING

ALL OTHER

11.96
6.96
-2.33
2.59
11.54
12.95
5.77
8.53
6.49
8.06
10.25

TOTAL INDIRECT (d)

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)

Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROTECTED DEFENSE PURCHASES OF
 PULVER BLAST FURNACES & STEEL MILLS, 1985-1991

(In millions of 1985 dollars)

AVG. ANNUAL
 TEMPERATURE
 1985-1991

1985 1986 1987 1988 1989 1990 1991

SUMMARY

DEFENSE PURCHASES
 DIRECT (a)
 INDIRECT (b)

257 264 269 285 306 306 278 1.04
 5,353 5,225 5,243 5,413 6,150 6,150 6,572 4.64

TOTAL

5,610 5,489 5,512 5,698 6,119 6,456 6,850 4.57

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	70	69	69	71	78	89	101	7.92
AMMUNITION	275	294	287	279	294	318	351	3.61
TANKS AND TANK COMPONENTS	130	136	123	119	122	123	120	-2.47
OTHER ORDNANCE	64	60	56	55	58	59	62	0.66
COMMUNICATIONS EQUIPMENT	549	540	559	595	653	711	773	7.44
OTHER ELECTRONIC EQUIPMENT	132	139	151	164	182	200	219	9.52
MOTOR VEHICLES	345	331	308	301	312	339	370	2.25
AIRCRAFT AND PARTS	337	326	330	343	361	378	401	4.23
AIRCRAFT ENGINES AND PARTS	292	284	285	289	304	314	328	2.92
SHIPBUILDING	1,148	1,082	1,061	1,097	1,176	1,234	1,332	4.25
ALL OTHER	2,011	1,964	2,014	2,100	2,273	2,385	2,515	5.07

TOTAL INDIRECT (d)

5,353 5,225 5,243 5,413 5,813 6,150 6,572 4.69

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT) 302 307 305 296 290 282 279 -1.89

Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
228. IRON & STEEL FOUNDRIES, 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	Avg Ann %Growth 1986-1991
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SUMMARY

DEFENSE PURCHASES								
DIRECT (a)	11	11	12	14	15	15	15	6.40
INDIRECT (b)	904	918	933	997	1,072	1,141	1,224	5.92

TOTAL	915	929	945	1,011	1,087	1,156	1,239	5.93
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INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	13	14	14	15	15	18	21	8.45
AMMUNITION	14	16	16	16	17	18	21	5.59
TANKS AND TANK COMPONENTS	19	20	19	18	19	20	19	-1.02
OTHER ORDNANCE	16	16	14	15	15	16	17	1.22
COMMUNICATIONS EQUIPMENT	76	78	81	89	98	107	119	8.82
OTHER ELECTRONIC EQUIPMENT	20	22	24	26	29	33	37	10.96
MOTOR VEHICLES	107	107	101	104	108	116	125	3.16
AIRCRAFT AND PARTS	63	64	65	71	74	78	83	5.34
AIRCRAFT ENGINES AND PARTS	115	118	119	127	133	138	146	4.35
SHIPBUILDING	71	69	68	72	79	84	90	5.46
ALL OTHER	390	394	412	444	485	513	546	6.74

TOTAL INDIRECT (d)	904	918	933	997	1,072	1,141	1,224	5.92
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FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	67	68	69	69	68	66	66	-0.60
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
229. IRON & STEEL FORGINGS, 1985-1991
(In millions of 1985 dollars)

AVG ANN
%GROWTH
1986-1991

1985 1986 1987 1988 1989 1990 1991

SUMMARY

DEFENSE PURCHASES
DIRECT (a)
INDIRECT (b)

7 7 7 8 9 10 9
715 732 749 779 821 857 896

5.15
4.13

TOTAL

4.14

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES
AMMUNITION
TANKS AND TANK COMPONENTS
OTHER ORDNANCE
COMMUNICATIONS EQUIPMENT
OTHER ELECTRONIC EQUIPMENT
MOTOR VEHICLES
AIRCRAFT AND PARTS
AIRCRAFT ENGINES AND PARTS
SHIPBUILDING
ALL OTHER

10 10 10 10 10 13 16
13 15 15 14 15 17 18
33 36 34 33 33 35 34
15 13 13 14 15 13 14
28 28 30 33 36 38 43
3 3 3 5 5 6 6
43 43 42 42 44 46 51
96 97 101 105 111 117 126
262 268 276 286 302 316 336
22 21 22 23 25 27 28
190 198 203 214 222 229 224

9.86
3.71
-1.14
1.49
8.96
14.87
3.47
5.37
4.63
5.92
2.50

TOTAL INDIRECT (d)

715 732 749 779 821 857 896

4.13

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)

66 68 70 68 66 64 64

-1.21

Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
232. PRIMARY COPPER, 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
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SUMMARY

DEFENSE PURCHASES								
DIRECT (a)	57	55	58	62	70	77	86	9.35
INDIRECT (b)	617	632	661	718	796	876	970	8.95

TOTAL	674	687	719	780	866	953	1,056	8.98
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INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	15	16	17	18	20	24	28	11.84
AMMUNITION	21	23	24	26	27	31	35	8.76
TANKS AND TANK COMPONENTS	6	7	6	7	7	6	7	0.00
OTHER ORDNANCE	7	7	6	7	7	7	8	2.71
COMMUNICATIONS EQUIPMENT	133	138	147	163	185	208	235	11.23
OTHER ELECTRONIC EQUIPMENT	34	37	42	48	54	61	68	12.94
MOTOR VEHICLES	15	15	15	14	15	17	19	4.84
AIRCRAFT AND PARTS	49	50	53	58	62	68	75	8.45
AIRCRAFT ENGINES AND PARTS	29	29	29	31	34	36	39	6.10
SHIPBUILDING	40	39	40	42	47	51	56	7.50
ALL OTHER	268	271	282	304	338	367	400	8.10

TOTAL INDIRECT (d)	617	632	661	718	796	876	970	8.95
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FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	39	40	42	42	42	43	43	1.46
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF

235. PRIMARY ALUMINUM, 1985-1991

(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
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SUMMARY

DEFENSE PURCHASES								
DIRECT (a)	9	8	9	9	10	11	12	8.45
INDIRECT (b)	1,214	1,171	1,179	1,248	1,368	1,488	1,614	6.63
TOTAL	1,223	1,179	1,188	1,257	1,378	1,499	1,626	6.64

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	26	24	25	26	29	34	39	10.20
AMMUNITION	36	38	37	37	41	45	51	6.06
TANKS AND TANK COMPONENTS	16	16	15	14	15	16	15	-1.28
OTHER ORDNANCE	20	19	18	17	18	19	20	1.03
COMMUNICATIONS EQUIPMENT	189	184	189	206	233	262	291	9.60
OTHER ELECTRONIC EQUIPMENT	43	43	43	53	61	67	76	12.06
MOTOR VEHICLES	36	32	30	30	33	37	40	4.56
AIRCRAFT AND PARTS	159	153	154	165	179	193	209	6.44
AIRCRAFT ENGINES AND PARTS	180	171	170	176	191	201	214	4.59
SHIPBUILDING	65	61	59	63	70	75	81	5.84
ALL OTHER	444	430	434	461	498	539	578	6.09
TOTAL INDIRECT (d)	1,214	1,171	1,179	1,248	1,368	1,488	1,614	6.63

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	73	70	69	67	67	66	66	-1.17
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
236. PRIMARY NONFER METALS, NEC, 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
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SUMMARY

DEFENSE PURCHASES	0	0	1	1	0	0	0	N/A
DIRECT (a)	880	901	932	1,026	1,146	1,283	1,409	9.35
INDIRECT (b)								

TOTAL	880	901	933	1,027	1,146	1,283	1,409	9.35
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INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	26	28	28	30	34	41	47	10.91
AMMUNITION	18	20	20	20	23	24	28	6.96
TANKS AND TANK COMPONENTS	8	8	7	7	8	8	9	2.38
OTHER ORDNANCE	10	10	10	11	11	12	13	5.39
COMMUNICATIONS EQUIPMENT	247	257	272	307	349	401	447	11.71
OTHER ELECTRONIC EQUIPMENT	40	44	48	56	63	73	82	13.26
MOTOR VEHICLES	15	15	15	14	15	18	19	4.84
AIRCRAFT AND PARTS	76	78	80	90	97	108	116	8.26
AIRCRAFT ENGINES AND PARTS	51	52	52	56	59	65	69	5.82
SHIPBUILDING	58	57	57	61	69	75	82	7.54
ALL OTHER	331	332	343	374	418	458	497	8.40

TOTAL INDIRECT (d)	880	901	932	1,026	1,146	1,283	1,409	9.35
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FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	23	23	22	22	22	23	23	0.00
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
239. ALUMINUM ROLLING & DRAWING, 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
DEFENSE PURCHASES								
DIRECT (a)	0	0	0	0	0	1	1	N/A
INDIRECT (b)	1,085	1,118	1,208	1,316	1,460	1,630	1,807	10.08
TOTAL	1,085	1,118	1,208	1,316	1,460	1,631	1,808	10.09

SUMMARY

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	24	25	27	30	34	41	47	13.46
AMMUNITION	50	56	59	61	66	75	88	9.46
TANKS AND TANK COMPONENTS	24	26	26	26	29	31	31	3.58
OTHER ORDNANCE	23	22	23	23	24	27	29	5.68
COMMUNICATIONS EQUIPMENT	213	220	244	274	312	359	405	12.98
OTHER ELECTRONIC EQUIPMENT	44	49	58	65	76	87	100	15.33
MOTOR VEHICLES	31	32	32	32	35	41	47	7.99
AIRCRAFT AND PARTS	194	198	215	237	261	288	319	10.01
AIRCRAFT ENGINES AND PARTS	40	40	42	46	50	55	58	7.71
SHIPBUILDING	66	64	68	75	82	93	104	10.20
ALL OTHER	376	386	414	447	491	533	579	8.45
TOTAL INDIRECT (d)	1,085	1,118	1,208	1,316	1,460	1,630	1,807	10.08

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	82	85	91	92	94	96	99	3.10
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
240. NONFER ROLLING & DRAWING, NEC, 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
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SUMMARY

DEFENSE PURCHASES								
DIRECT (a)	56	58	60	62	64	71	79	6.38
INDIRECT (b)	448	485	517	566	626	685	743	8.91
TOTAL	504	543	577	628	690	756	822	8.65

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	22	23	24	26	29	34	39	11.14
AMMUNITION	7	8	8	9	9	10	12	8.45
TANKS AND TANK COMPONENTS	4	4	4	4	5	5	5	4.56
OTHER ORDNANCE	8	8	8	9	9	10	10	4.56
COMMUNICATIONS EQUIPMENT	140	152	164	184	207	233	257	11.08
OTHER ELECTRONIC EQUIPMENT	31	35	40	46	53	58	64	12.83
MOTOR VEHICLES	4	5	4	4	5	6	7	6.96
AIRCRAFT AND PARTS	55	59	63	69	74	79	86	7.83
AIRCRAFT ENGINES AND PARTS	44	48	49	51	56	58	63	5.59
SHIPBUILDING	19	20	21	22	25	28	29	7.71
ALL OTHER	114	123	132	142	154	164	171	6.81
TOTAL INDIRECT (d)	448	485	517	566	626	685	743	8.91

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	41	44	46	47	47	47	47	1.33
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
241 NONFER WIRE DRAWING&INSULATIN, 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
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SUMMARY

DEFENSE PURCHASES								
DIRECT (a)	6	6	6	7	7	7	8	9
INDIRECT (b)	876	926	1,003	1,099	1,204	1,315	1,425	8.45 9.00
TOTAL	882	932	1,009	1,106	1,211	1,323	1,434	9.00

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	32	34	36	39	44	50	58	11.27
AMMUNITION	9	10	11	10	11	13	14	6.96
TANKS AND TANK COMPONENTS	16	17	16	17	18	17	17	0.00
OTHER ORDNANCE	5	5	5	5	5	6	6	3.71
COMMUNICATIONS EQUIPMENT	229	242	265	295	329	365	402	10.68
OTHER ELECTRONIC EQUIPMENT	91	102	118	133	149	167	185	12.65
MOTOR VEHICLES	11	11	11	12	12	13	15	6.40
AIRCRAFT AND PARTS	74	78	84	93	100	106	115	8.07
AIRCRAFT ENGINES AND PARTS	17	18	19	20	20	22	23	5.02
SHIPBUILDING	63	63	66	71	76	82	89	7.15
ALL OTHER	329	346	372	404	440	474	501	7.68
TOTAL INDIRECT (d)	876	926	1,003	1,099	1,204	1,315	1,425	9.00

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	66	71	76	77	77	77	77	1.64
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF

242. ALUMINUM CASTINGS, 1985-1991

(In millions of 1985 dollars)

AVG ANN
%GROWTH
1986-1991

1985 1986 1987 1988 1989 1990 1991 1986-1991

SUMMARY

DEFENSE PURCHASES

DIRECT (a)

INDIRECT (b)

TOTAL

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES

AMMUNITION

TANKS AND TANK COMPONENTS

OTHER ORDNANCE

COMMUNICATIONS EQUIPMENT

OTHER ELECTRONIC EQUIPMENT

MOTOR VEHICLES

AIRCRAFT AND PARTS

AIRCRAFT ENGINES AND PARTS

SHIPBUILDING

ALL OTHER

TOTAL INDIRECT (d)

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)

Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

1 1 1 1 1 1 1 0.00
502 511 548 600 665 745 830 10.19

503 512 549 601 666 746 831 10.17

15 14 15 18 19 24 27 14.04
4 6 6 5 5 7 8 5.92
3 3 3 3 3 4 4 5.92
3 3 3 3 3 4 4 5.92
133 136 147 165 187 214 241 12.12
30 32 36 42 48 55 63 14.51
25 26 27 29 33 35 35 6.13
67 67 71 78 85 93 104 9.19
74 74 78 85 92 100 110 8.25
16 16 17 18 20 22 23 7.53
132 134 146 156 174 189 211 9.51

502 511 548 600 665 745 830 10.19

48 49 51 52 52 54 55 2.34

PROJECTED DEFENSE PURCHASES OF

245. NONFER FORGINGS, 1985-1991

(In millions of 1985 dollars)

AVG ANN
%GROWTH
1986-1991

1985 1986 1987 1988 1989 1990 1991

SUMMARY

DEFENSE PURCHASES

DIRECT (a)
INDIRECT (b)

12 13 16 18 19 20 18
514 519 549 581 620 671 723

TOTAL

526 532 565 599 639 691 741

6.85

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES

AMMUNITION

TANKS AND TANK COMPONENTS

OTHER ORDNANCE

COMMUNICATIONS EQUIPMENT

OTHER ELECTRONIC EQUIPMENT

MOTOR VEHICLES

AIRCRAFT AND PARTS

AIRCRAFT ENGINES AND PARTS

SHIPBUILDING

ALL OTHER

13 13 13 14 14 17 20
32 37 36 38 40 46 50
2 2 2 2 2 2 2
41 40 40 40 42 44 46
26 25 28 31 34 38 44
2 2 2 2 2 4 4
5 5 5 5 5 6 6
149 149 160 173 186 203 220
162 163 175 185 199 214 230
3 3 3 3 5 6 6
79 80 85 88 91 91 95

9.00
6.21
0.00
2.83
11.97
14.87
3.71
8.11
7.13
14.87
3.50

TOTAL INDIRECT (d)

514 519 549 581 620 671 723

6.85

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)

47 48 50 50 50 50 50

0.82

Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
251. FAB STRUCTURAL METAL, 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
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SUMMARY

DEFENSE PURCHASES								
DIRECT (a)	51	50	52	56	64	73	83	10.67
INDIRECT (b)	522	526	554	608	682	757	836	9.71
TOTAL	573	576	606	664	746	830	919	9.79

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	3	3	3	3	5	5	6	14.87
AMMUNITION	1	1	1	2	2	4	4	31.95
TANKS AND TANK COMPONENTS	0	0	0	0	0	0	0	N/A
OTHER ORDNANCE	1	1	1	2	2	2	2	14.87
COMMUNICATIONS EQUIPMENT	39	40	44	48	54	62	70	11.84
OTHER ELECTRONIC EQUIPMENT	1	1	1	3	3	4	4	31.95
MOTOR VEHICLES	1	1	1	2	2	2	2	14.87
AIRCRAFT AND PARTS	35	36	38	42	45	49	55	8.85
AIRCRAFT ENGINES AND PARTS	3	3	3	3	3	4	4	5.92
SHIPBUILDING	250	247	254	276	305	334	369	8.36
ALL OTHER	188	193	208	227	261	291	320	10.64

TOTAL INDIRECT (d)

	522	526	554	608	682	757	836	9.71
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FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	19	20	21	21	21	22	22	1.92
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
253. FAB PLATE WORK(BOILERSHOP), 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
DEFENSE PURCHASES								
DIRECT (a)	756	757	789	865	955	1,031	1,131	8.36
INDIRECT (b)	202	208	220	242	272	302	331	9.74
TOTAL	958	965	1,009	1,107	1,227	1,333	1,462	8.66

SUMMARY

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	1	1	1	2	2	2	2	2	14.87
AMMUNITION	3	3	3	3	3	3	3	6	14.87
TANKS AND TANK COMPONENTS	0	0	0	0	0	0	0	0	N/A
OTHER ORDNANCE	1	1	1	0	0	2	2	2	14.87
COMMUNICATIONS EQUIPMENT	6	7	7	8	10	10	13	13	13.18
OTHER ELECTRONIC EQUIPMENT	1	1	1	2	3	3	4	4	31.95
MOTOR VEHICLES	1	1	1	2	2	2	2	2	14.87
AIRCRAFT AND PARTS	4	4	4	6	7	7	7	7	11.84
AIRCRAFT ENGINES AND PARTS	3	3	3	3	3	3	3	4	5.92
SHIPBUILDING	71	70	73	78	87	96	105	105	8.45
ALL OTHER	111	117	126	138	155	174	186	186	9.71
TOTAL INDIRECT (d)	202	208	220	242	272	302	331	331	9.74

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	31	32	33	33	33	33	33	0.62
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Source: Defense Economic Impact Modeling System (DEIMS). March 31, 1986.

PROJECTED DEFENSE PURCHASES OF

257. SCREW MACHINE PRODUCTS, 1985-1991

(In millions of 1985 dollars)

Avg Ann
%Growth
1986-1991

1985 1986 1987 1988 1989 1990 1991 1991

SUMMARY

DEFENSE PURCHASES	61	59	60	63	68	75	80	6.28
DIRECT (a)	857	853	895	942	1,010	1,099	1,188	6.85
INDIRECT (b)								

TOTAL	918	912	955	1,005	1,078	1,174	1,268	6.81
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INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	21	21	23	23	26	29	34	10.12
AMMUNITION	14	15	16	15	15	18	19	4.84
TANKS AND TANK COMPONENTS	6	7	6	6	6	6	7	0.00
OTHER ORDNANCE	9	8	8	7	8	8	9	2.38
COMMUNICATIONS EQUIPMENT	197	197	210	227	250	278	303	8.99
OTHER ELECTRONIC EQUIPMENT	37	39	44	48	54	60	65	10.76
MOTOR VEHICLES	45	44	42	41	43	49	53	3.79
AIRCRAFT AND PARTS	131	129	136	144	153	164	175	6.29
AIRCRAFT ENGINES AND PARTS	38	37	40	40	43	45	46	4.45
SHIPBUILDING	54	53	52	56	60	63	70	5.72
ALL OTHER	305	303	318	335	352	379	407	6.08

TOTAL INDIRECT (d)	857	853	895	942	1,010	1,099	1,188	6.85
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FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	67	67	69	67	65	65	64	-0.91
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
259. OTHER METAL STAMPINGS, 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
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SUMMARY

DEFENSE PURCHASES

DIRECT (a)	0	0	0	0	0	0	0	N/A
INDIRECT (b)	743	762	808	877	976	1,090	1,201	9.53
TOTAL	743	762	808	877	976	1,090	1,201	9.53

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	24	24	26	27	30	36	41	11.30
AMMUNITION	26	29	29	30	32	36	40	6.64
TANKS AND TANK COMPONENTS	6	6	6	7	7	8	6	0.00
OTHER ORDNANCE	10	10	10	8	11	11	12	3.71
COMMUNICATIONS EQUIPMENT	192	197	209	230	259	295	326	10.60
OTHER ELECTRONIC EQUIPMENT	96	104	117	130	147	167	186	12.33
MOTOR VEHICLES	10	10	8	8	9	11	12	3.71
AIRCRAFT AND PARTS	72	72	76	83	89	98	105	7.84
AIRCRAFT ENGINES AND PARTS	27	27	28	30	32	34	36	5.92
SHIPBUILDING	38	38	39	42	46	51	55	7.68
ALL OTHER	242	245	260	282	314	343	382	9.29
TOTAL INDIRECT (d)	743	762	808	877	976	1,090	1,201	9.53

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	67	69	72	72	74	76	77	2.22
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF

264. PLATING & POLISHING, 1985-1991

(In millions of 1985 dollars)

AVG ANN
%GROWTH
1986-1991

1985 1986 1987 1988 1989 1990 1991

SUMMARY

DEFENSE PURCHASES							
DIRECT (a)	2	2	2	2	2	2	0.00
INDIRECT (b)	763	789	841	923	1,027	1,150	10.13

TOTAL 765 791 843 925 1,029 1,152 1,280 10.10

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	29	31	32	35	39	48	55	12.15
AMMUNITION	17	21	21	20	23	25	28	5.92
TANKS AND TANK COMPONENTS	2	2	2	2	2	2	2	0.00
OTHER ORDNANCE	17	17	16	17	18	19	20	3.30
COMMUNICATIONS EQUIPMENT	353	362	387	430	484	548	610	11.00
OTHER ELECTRONIC EQUIPMENT	74	81	91	104	117	132	149	12.96
MOTOR VEHICLES	17	17	16	17	18	21	22	5.29
AIRCRAFT AND PARTS	67	69	72	80	86	93	103	8.34
AIRCRAFT ENGINES AND PARTS	12	12	14	15	16	17	18	8.45
SHIPBUILDING	17	19	19	20	23	25	28	8.06
ALL OTHER	158	158	171	183	201	220	243	8.99

TOTAL INDIRECT (d) 763 789 841 923 1,027 1,150 1,278 10.13

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT) 80 83 86 86 87 89 90 1.63

Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
268. PIPE, VALVES & PIPE FITTINGS, 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
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SUMMARY

DEFENSE PURCHASES								
DIRECT (a)	120	122	124	133	146	157	172	7.11
INDIRECT (b)	501	514	550	606	685	766	852	10.64
TOTAL	621	636	674	739	831	923	1,024	9.99

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	3	5	5	5	5	5	8	9.86
AMMUNITION	6	6	6	6	8	9	10	10.76
TANKS AND TANK COMPONENTS	2	2	2	2	2	2	2	0.00
OTHER ORDNANCE	2	2	2	2	2	2	2	0.00
COMMUNICATIONS EQUIPMENT	23	24	26	31	34	40	46	13.90
OTHER ELECTRONIC EQUIPMENT	6	8	8	10	10	13	13	10.20
MOTOR VEHICLES	6	6	6	6	7	7	8	5.92
AIRCRAFT AND PARTS	15	15	16	18	19	22	23	8.92
AIRCRAFT ENGINES AND PARTS	18	20	20	21	24	25	29	7.71
SHIPBUILDING	134	135	140	151	166	183	205	8.71
ALL OTHER	286	291	319	354	408	458	506	11.70

TOTAL INDIRECT (d)	501	514	550	606	685	766	852	10.64
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FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	17	18	19	20	20	20	21	3.13
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF

271. STEAM ENGINES & TURBINES, 1985-1991

(In millions of 1985 dollars)

AVG ANN
%GROWTH
1986-1991

1985 1986 1987 1988 1989 1990 1991

SUMMARY

DEFENSE PURCHASES							
DIRECT (a)	809	835	836	873	911	889	826
INDIRECT (b)	162	172	183	198	215	220	214
TOTAL	971	1,007	1,019	1,071	1,126	1,109	1,040
							-0.22
							4.47
							0.65

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	0	0	0	0	0	2	2	N/A
AMMUNITION	0	0	0	0	0	2	2	N/A
TANKS AND TANK COMPONENTS	0	0	0	0	0	0	0	N/A
OTHER ORDNANCE	0	0	0	0	0	0	0	N/A
COMMUNICATIONS EQUIPMENT	5	5	5	5	6	8	9	12.47
OTHER ELECTRONIC EQUIPMENT	2	2	2	2	2	2	2	0.00
MOTOR VEHICLES	0	0	0	0	0	0	0	N/A
AIRCRAFT AND PARTS	2	2	3	4	4	4	4	14.87
AIRCRAFT ENGINES AND PARTS	2	2	2	2	2	2	2	0.00
SHIPBUILDING	66	68	69	75	81	88	97	7.36
ALL OTHER	85	93	102	110	120	112	96	0.64
TOTAL INDIRECT (d)	162	172	183	198	215	220	214	4.47

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	57	59	61	61	61	60	60	0.34
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
272. INTERNAL COMBUS. ENGINES, MEC. 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
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SUMMARY

DEFENSE PURCHASES								
DIRECT (a)	93	94	100	109	124	141	159	11.08
INDIRECT (b)	411	430	449	484	535	591	650	8.61
TOTAL	504	524	549	593	659	732	809	9.07

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	3	4	4	4	4	4	5	4.56
AMMUNITION	3	4	4	4	4	4	5	4.56
TANKS AND TANK COMPONENTS	14	16	15	15	16	17	16	0.00
OTHER ORDNANCE	9	9	9	10	10	11	12	5.92
COMMUNICATIONS EQUIPMENT	17	18	20	21	24	28	30	10.76
OTHER ELECTRONIC EQUIPMENT	3	4	5	6	6	7	9	17.61
MOTOR VEHICLES	35	36	35	37	39	44	51	7.21
AIRCRAFT AND PARTS	10	11	11	12	12	15	16	7.78
AIRCRAFT ENGINES AND PARTS	9	9	9	10	10	11	12	5.92
SHIPBUILDING	135	139	143	156	169	185	207	8.29
ALL OTHER	173	180	194	209	241	265	287	9.78

TOTAL INDIRECT (d)	411	430	449	484	535	591	650	8.61
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FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	27	28	30	30	30	31	31	2.06
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
281. INDUST. TRUCKS & TRACTORS, 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
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SUMMARY

DEFENSE PURCHASES								
DIRECT (a)	1,021	1,053	1,131	1,238	1,432	1,647	1,880	12.29
INDIRECT (b)	101	108	118	127	146	166	192	12.20
TOTAL	1,122	1,161	1,249	1,365	1,578	1,813	2,072	12.28

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	0	0	0	0	0	0	0	N/A
AMMUNITION	0	1	2	2	2	2	2	14.87
TANKS AND TANK COMPONENTS	0	0	0	0	0	0	0	N/A
OTHER ORDNANCE	0	0	0	0	0	0	0	N/A
COMMUNICATIONS EQUIPMENT	3	3	3	5	5	5	6	14.87
OTHER ELECTRONIC EQUIPMENT	1	1	2	2	2	2	2	14.87
MOTOR VEHICLES	1	1	2	2	2	2	2	14.87
AIRCRAFT AND PARTS	1	1	2	2	2	2	2	14.87
AIRCRAFT ENGINES AND PARTS	1	1	2	2	2	2	2	14.87
SHIPBUILDING	1	1	2	2	2	2	2	14.87
ALL OTHER	93	99	103	110	129	149	174	11.94
TOTAL INDIRECT (d)	101	108	118	127	146	166	192	12.20

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	47	51	53	53	53	53	53	0.77
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
282. MACH TOOLS, METAL CUTTING, 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
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SUMMARY

DEFENSE PURCHASES								
DIRECT (a)	724	835	892	949	1,043	1,140	1,231	8.07
INDIRECT (b)	162	178	177	192	209	230	247	6.77
TOTAL	886	1,013	1,069	1,141	1,252	1,370	1,478	7.85

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	3	3	4	4	4	4	5	10.76
AMMUNITION	7	9	9	9	10	11	11	4.10
TANKS AND TANK COMPONENTS	2	2	2	2	2	2	2	0.00
OTHER ORDNANCE	5	5	5	6	6	6	7	6.96
COMMUNICATIONS EQUIPMENT	8	9	9	9	12	13	14	9.24
OTHER ELECTRONIC EQUIPMENT	3	3	4	4	6	6	7	18.47
MOTOR VEHICLES	2	2	2	2	2	2	2	0.00
AIRCRAFT AND PARTS	17	19	18	21	22	23	27	7.28
AIRCRAFT ENGINES AND PARTS	15	17	16	17	18	21	23	6.23
SHIPBUILDING	8	9	9	9	10	13	14	9.24
ALL OTHER	92	100	99	109	117	129	135	6.19

TOTAL INDIRECT (d)	162	178	177	192	209	230	247	6.77
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FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	30	32	33	35	35	33	32	0.00
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
284. SPECIAL DIES, TOOLS, ACCESSORIES, 1985-1991
(In millions of 1985 dollars)

AVG ANN
%GROWTH
1986-1991

1985 1986 1987 1988 1989 1990 1991

SUMMARY

DEFENSE PURCHASES						
DIRECT (a)	378	408	416	425	450	474
INDIRECT (b)	1,226	1,302	1,364	1,445	1,562	1,672
TOTAL	1,604	1,710	1,780	1,870	2,012	2,137
						5.67
						3.04
						6.44

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	30	32	33	35	40	45	52	10.20
AMMUNITION	47	55	57	57	61	66	74	6.11
TANKS AND TANK COMPONENTS	16	18	16	17	17	18	17	-1.14
OTHER ORDNANCE	22	23	21	22	24	25	26	2.48
COMMUNICATIONS EQUIPMENT	192	205	219	241	268	296	324	9.59
OTHER ELECTRONIC EQUIPMENT	54	61	70	77	87	97	107	11.90
MOTOR VEHICLES	27	27	26	27	28	31	33	4.10
AIRCRAFT AND PARTS	176	185	195	211	227	241	255	6.63
AIRCRAFT ENGINES AND PARTS	153	159	166	174	185	196	204	5.11
SHIPBUILDING	80	82	83	89	96	102	111	6.24
ALL OTHER	429	455	478	495	529	555	576	4.83
TOTAL INDIRECT (d)	1,226	1,302	1,364	1,445	1,562	1,672	1,779	6.44

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	133	142	147	147	146	146	144	0.28
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF

302. MISC. MACHINERY, 1985-1991

(In millions of 1985 dollars)

AVG ANN
%GROWTH
1986-1991

1985 1986 1987 1988 1989 1990 1991

SUMMARY

DEFENSE PURCHASES

DIRECT (a)

INDIRECT (b)

TOTAL

97	103	103	104	107	101	92	-2.23
2,091	2,225	2,351	2,546	2,833	3,121	3,422	8.99
2,188	2,328	2,454	2,650	2,940	3,222	3,514	8.58

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	72	76	81	87	100	118	136	12.34
AMMUNITION	91	104	107	110	121	135	153	8.03
TANKS AND TANK COMPONENTS	12	12	13	11	12	13	14	3.13
OTHER ORDNANCE	32	31	32	32	35	37	39	4.70
COMMUNICATIONS EQUIPMENT	332	355	385	428	488	555	617	11.69
OTHER ELECTRONIC EQUIPMENT	61	71	81	91	106	122	136	13.88
MOTOR VEHICLES	47	49	48	49	53	59	67	6.46
AIRCRAFT AND PARTS	303	319	340	372	411	448	488	8.87
AIRCRAFT ENGINES AND PARTS	199	210	220	234	257	276	296	7.11
SHIPBUILDING	224	229	233	253	282	309	340	8.23
ALL OTHER	718	769	811	879	968	1,049	1,136	8.12

TOTAL INDIRECT (d)

2,091	2,225	2,351	2,546	2,833	3,121	3,422	8.99
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FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	161	172	179	180	183	185	187	1.59
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
303. ELECTRONIC COMPUTING EQUIP. 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
DEFENSE PURCHASES								
DIRECT (a)	3,871	4,224	4,603	4,977	5,458	5,975	6,445	8.82
INDIRECT (b)	1,260	1,398	1,531	1,668	1,799	1,946	2,056	8.02
TOTAL	5,131	5,622	6,134	6,645	7,257	7,921	8,501	8.62

SUMMARY

DEFENSE PURCHASES	3,871	4,224	4,603	4,977	5,458	5,975	6,445	8.82
DIRECT (a)	1,260	1,398	1,531	1,668	1,799	1,946	2,056	8.02
INDIRECT (b)								
TOTAL	5,131	5,622	6,134	6,645	7,257	7,921	8,501	8.62

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	8	9	10	10	11	12	14	9.24
AMMUNITION	2	3	3	3	3	3	3	0.00
TANKS AND TANK COMPONENTS	1	1	1	1	1	1	1	0.00
OTHER ORDNANCE	1	1	1	1	1	1	1	0.00
COMMUNICATIONS EQUIPMENT	107	114	121	130	140	151	160	7.01
OTHER ELECTRONIC EQUIPMENT	1,006	1,126	1,245	1,363	1,476	1,601	1,694	8.51
MOTOR VEHICLES	1	1	1	1	1	1	2	14.87
AIRCRAFT AND PARTS	23	24	26	28	28	29	31	5.25
AIRCRAFT ENGINES AND PARTS	5	6	5	6	6	6	6	0.00
SHIPBUILDING	6	6	6	6	7	8	8	5.92
ALL OTHER	100	107	112	119	125	133	136	4.91
TOTAL INDIRECT (d)	1,260	1,398	1,531	1,668	1,799	1,946	2,056	8.02

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	710	803	874	902	932	971	969	3.83
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF

315. MOTORS & GENERATORS, 1985-1991

(In millions of 1985 dollars)

AVG ANN
%GROWTH
1986-1991

1985 1986 1987 1988 1989 1990 1991

SUMMARY

DEFENSE PURCHASES						
DIRECT (a)	628	645	689	753	861	970
INDIRECT (b)	573	610	652	711	791	878
TOTAL	1,201	1,255	1,341	1,464	1,652	1,848
						2,057
						10.39

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	30	31	34	35	39	48	55	12.15
AMMUNITION	9	9	9	10	10	13	14	9.24
TANKS AND TANK COMPONENTS	4	5	6	4	4	4	5	0.00
OTHER ORDNANCE	2	2	2	2	2	2	2	0.00
COMMUNICATIONS EQUIPMENT	117	126	136	149	170	190	212	10.97
OTHER ELECTRONIC EQUIPMENT	47	54	62	69	79	90	101	13.34
MOTOR VEHICLES	11	11	11	12	12	13	16	7.78
AIRCRAFT AND PARTS	35	38	41	43	48	52	58	8.83
AIRCRAFT ENGINES AND PARTS	12	13	13	14	14	15	18	6.72
SHIPBUILDING	49	50	52	55	62	68	74	8.16
ALL OTHER	257	271	286	318	351	383	413	8.79
TOTAL INDIRECT (d)	573	610	652	711	791	878	968	9.68

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	42	45	47	48	48	48	48	1.30
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
332. TELEPHONE & TELEGRAPH EQUIP. 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
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SUMMARY

DEFENSE PURCHASES								
DIRECT (a)	591	640	722	835	975	1,109	1,241	14.16
INDIRECT (b)	280	310	343	393	456	517	580	13.35
TOTAL	871	950	1,065	1,228	1,431	1,626	1,821	13.90

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	5	5	5	6	8	8	10	14.87
AMMUNITION	3	3	3	3	3	3	5	10.76
TANKS AND TANK COMPONENTS	0	0	0	0	0	0	0	N/A
OTHER ORDNANCE	1	1	1	1	2	2	2	14.87
COMMUNICATIONS EQUIPMENT	132	147	167	195	230	264	297	15.10
OTHER ELECTRONIC EQUIPMENT	5	7	8	10	11	13	16	17.98
MOTOR VEHICLES	1	1	1	1	2	2	2	14.87
AIRCRAFT AND PARTS	10	12	12	15	17	18	21	11.84
AIRCRAFT ENGINES AND PARTS	4	4	5	6	6	7	7	11.84
SHIPBUILDING	12	13	14	15	17	20	21	10.07
ALL OTHER	107	117	127	141	160	180	199	11.21
TOTAL INDIRECT (d)	280	310	343	393	456	517	580	13.35

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	98	104	109	109	109	109	109	0.94
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
333. RADIO&TV COMMUNICATION EQUIP, 1985-1991
(In millions of 1985 dollars)

AVG ANN
%GROWTH
1986-1991

1985 1986 1987 1988 1989 1990 1991

SUMMARY

DEFENSE PURCHASES

DIRECT (a)

INDIRECT (b)

24,981 26,747 28,896 32,083 36,465 41,206 46,018 11.46

4,801 5,409 5,851 6,364 7,056 7,817 8,528 9.53

TOTAL

29,782 32,156 34,747 38,447 43,521 49,023 54,546 11.15

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES

AMMUNITION

TANKS AND TANK COMPONENTS

OTHER ORDNANCE

COMMUNICATIONS EQUIPMENT

OTHER ELECTRONIC EQUIPMENT

MOTOR VEHICLES

AIRCRAFT AND PARTS

AIRCRAFT ENGINES AND PARTS

SHIPBUILDING

ALL OTHER

1,091 1,237 1,325 1,446 1,634 1,931 2,336 12.57

11 14 15 14 17 18 21 8.45

1 3 1 2 2 2 2 -7.79

54 58 59 61 64 67 73 4.71

1,707 1,896 2,060 2,231 2,463 2,638 2,756 7.77

4 4 6 6 7 9 9 17.61

1 1 1 2 2 2 2 14.87

1,377 1,574 1,724 1,891 2,075 2,279 2,475 9.47

84 95 100 106 115 124 130 6.47

381 424 445 480 533 586 644 8.72

90 103 115 125 144 161 180 11.81

TOTAL INDIRECT (d)

4,801 5,409 5,851 6,364 7,056 7,817 8,528 9.53

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)

3,596 3,797 3,910 3,850 3,813 3,797 3,789 -0.04

Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
335. SEMICONDUCTORS, 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
DEFENSE PURCHASES								
DIRECT (a)	66	69	74	77	79	81	84	4.01
INDIRECT (b)	3,447	3,622	3,773	3,972	4,247	4,506	4,797	5.78
TOTAL	3,513	3,691	3,847	4,049	4,326	4,587	4,881	5.75

SUMMARY

DEFENSE PURCHASES
DIRECT (a)
INDIRECT (b)

TOTAL

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	201	211	215	225	241	269	299	7.22
AMMUNITION	58	67	66	64	66	70	76	2.55
TANKS AND TANK COMPONENTS	17	19	18	17	17	17	17	-2.20
OTHER ORDNANCE	63	63	60	60	61	62	63	0.00
COMMUNICATIONS EQUIPMENT	1,593	1,666	1,746	1,852	2,002	2,139	2,281	6.49
OTHER ELECTRONIC EQUIPMENT	317	354	389	422	459	495	531	8.45
MOTOR VEHICLES	66	68	64	62	64	69	75	1.98
AIRCRAFT AND PARTS	371	388	404	426	445	459	480	4.35
AIRCRAFT ENGINES AND PARTS	24	25	25	26	26	27	28	2.29
SHIPBUILDING	298	300	299	309	326	337	356	3.48
ALL OTHER	439	461	487	509	540	562	591	5.09
TOTAL INDIRECT (d)	3,447	3,622	3,773	3,972	4,247	4,506	4,797	5.78

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	243	256	259	255	247	238	227	-2.38
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
339. CONNECTORS, FOR ELEC. APP., 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
DEFENSE PURCHASES								
DIRECT (a)	231	256	286	320	363	403	436	11.24
INDIRECT (b)	942	1,036	1,151	1,275	1,422	1,577	1,724	10.72
TOTAL	1,173	1,292	1,437	1,595	1,785	1,980	2,160	10.83

SUMMARY

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	39	43	49	53	61	72	83	14.06
AMMUNITION	17	19	22	21	24	27	30	9.57
TANKS AND TANK COMPONENTS	2	2	2	2	2	2	2	0.00
OTHER ORDNANCE	5	5	5	5	6	6	8	9.86
COMMUNICATIONS EQUIPMENT	419	459	513	578	658	742	824	12.41
OTHER ELECTRONIC EQUIPMENT	196	217	240	256	274	289	300	6.69
MOTOR VEHICLES	3	3	3	4	4	4	6	14.87
AIRCRAFT AND PARTS	88	96	107	120	132	143	157	10.34
AIRCRAFT ENGINES AND PARTS	22	24	25	28	30	33	34	7.21
SHIPBUILDING	17	18	20	23	24	27	30	10.76
ALL OTHER	134	150	165	185	207	232	250	10.76
TOTAL INDIRECT (d)	942	1,036	1,151	1,275	1,422	1,577	1,724	10.72

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	88	96	104	106	107	109	110	2.76
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
340. ELEC. COMPONENTS, NEC, 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
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SUMMARY

DEFENSE PURCHASES

	0	0	0	0	0	0	0	0	N/A
DIRECT (a)	3,894	4,208	4,561	5,014	5,631	6,318	6,990	0	10.68
INDIRECT (b)									

TOTAL

10.68

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	165	182	192	208	235	276	319	11.88
AMMUNITION	58	68	69	71	76	86	96	7.14
TANKS AND TANK COMPONENTS	5	5	5	6	6	6	6	3.71
OTHER ORDNANCE	32	32	33	34	35	37	40	4.56
COMMUNICATIONS EQUIPMENT	2,403	2,563	2,767	3,046	3,437	3,861	4,271	10.75
OTHER ELECTRONIC EQUIPMENT	392	449	513	582	664	756	847	13.53
MOTOR VEHICLES	12	12	13	13	14	16	19	9.63
AIRCRAFT AND PARTS	264	289	312	342	372	409	443	8.92
AIRCRAFT ENGINES AND PARTS	67	71	76	81	86	92	98	6.66
SHIPBUILDING	69	75	80	86	96	104	117	9.30
ALL OTHER	427	462	501	545	610	675	734	9.70

TOTAL INDIRECT (d)

10.68

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	394	426	448	449	453	459	460	1.55
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
349. OTHER MOTOR VEHICLES, 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
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SUMMARY

DEFENSE PURCHASES								
DIRECT (a)	2,918	3,045	2,960	2,932	3,100	3,546	4,100	6.13
INDIRECT (b)	61	71	71	72	76	80	80	2.42
TOTAL	2,979	3,116	3,031	3,004	3,176	3,626	4,180	6.05

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	0	0	0	0	0	0	0	N/A
AMMUNITION	0	0	0	0	0	0	0	N/A
TANKS AND TANK COMPONENTS	0	0	0	0	0	0	0	N/A
OTHER ORDNANCE	0	0	0	0	0	0	0	N/A
COMMUNICATIONS EQUIPMENT	0	0	0	0	0	0	0	N/A
OTHER ELECTRONIC EQUIPMENT	0	0	0	0	0	0	0	N/A
MOTOR VEHICLES	57	67	68	69	72	76	76	2.55
AIRCRAFT AND PARTS	0	0	0	0	0	0	0	N/A
AIRCRAFT ENGINES AND PARTS	0	0	0	0	0	0	0	N/A
SHIPBUILDING	0	0	0	0	0	0	0	N/A
ALL OTHER	4	4	3	3	4	4	4	0.00

TOTAL INDIRECT (d)	61	71	71	72	76	80	80	2.42
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FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	282	297	312	312	316	317	319	1.44
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
350. MOTOR VEHICLE PARTS & ACCESS., 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
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SUMMARY

DEFENSE PURCHASES								
DIRECT (a)	576	596	597	608	650	680	686	2.85
INDIRECT (b)	1,191	1,237	1,231	1,247	1,324	1,448	1,593	5.19
TOTAL	1,767	1,833	1,828	1,855	1,974	2,128	2,279	4.45

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	22	22	23	26	27	33	37	10.96
AMMUNITION	7	7	8	8	8	9	9	5.15
TANKS AND TANK COMPONENTS	4	4	4	4	4	4	5	4.56
OTHER ORDNANCE	2	2	2	2	2	2	2	0.00
COMMUNICATIONS EQUIPMENT	78	82	88	95	104	115	126	8.97
OTHER ELECTRONIC EQUIPMENT	9	11	12	14	15	15	18	10.35
MOTOR VEHICLES	853	881	856	845	888	976	1,082	4.20
AIRCRAFT AND PARTS	24	24	27	28	31	33	34	7.21
AIRCRAFT ENGINES AND PARTS	15	15	15	16	17	17	18	3.71
SHIPBUILDING	22	22	23	24	25	26	30	6.40
ALL OTHER	155	167	173	185	203	218	232	6.80
TOTAL INDIRECT (d)	1,191	1,237	1,231	1,247	1,324	1,448	1,593	5.19

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	174	182	188	185	184	182	181	-0.11
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF

351. AIRCRAFT, 1985-1991

(In millions of 1985 dollars)

AVG ANN
%GROWTH
1986-1991

1985 1986 1987 1988 1989 1990 1991

SUMMARY

DEFENSE PURCHASES

DIRECT (a)

INDIRECT (b)

TOTAL

14,119 15,102 16,236 17,214 18,302 19,710 20,978 6.79
497 548 604 662 708 762 797 7.78

6.83

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES

AMMUNITION

TANKS AND TANK COMPONENTS

OTHER ORDNANCE

COMMUNICATIONS EQUIPMENT

OTHER ELECTRONIC EQUIPMENT

MOTOR VEHICLES

AIRCRAFT AND PARTS

AIRCRAFT ENGINES AND PARTS

SHIPBUILDING

ALL OTHER

2 2 2 2 2 2 3 8.45
0 0 0 0 0 0 0 N/A
0 0 0 0 0 0 0 N/A
2 2 2 2 2 2 3 8.45
0 0 0 0 0 0 0 N/A
0 0 0 0 0 0 0 N/A
488 538 594 652 694 747 781 7.74
2 2 2 2 2 2 3 8.45
0 0 0 0 0 0 0 N/A
3 4 4 4 4 8 9 11.84

TOTAL INDIRECT (d)

7.78

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT) 1,084 1,130 1,158 1,138 1,121 1,095 1,088 -0.75

Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
352. AIRCRAFT ENGINES&ENGINE PARTS, 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
DEFENSE PURCHASES								
DIRECT (a)	6,511	6,663	6,910	7,350	7,906	8,557	9,006	6.21
INDIRECT (b)	2,384	2,500	2,530	2,603	2,746	2,908	2,965	3.47

SUMMARY

DEFENSE PURCHASES								
DIRECT (a)	6,511	6,663	6,910	7,350	7,906	8,557	9,006	6.21
INDIRECT (b)	2,384	2,500	2,530	2,603	2,746	2,908	2,965	3.47
TOTAL	8,895	9,163	9,440	9,953	10,652	11,465	11,971	5.49

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	50	50	49	51	55	63	70	6.96
AMMUNITION	6	6	6	6	6	7	7	3.13
TANKS AND TANK COMPONENTS	4	4	4	4	4	4	4	0.00
OTHER ORDNANCE	9	9	7	8	8	9	9	0.00
COMMUNICATIONS EQUIPMENT	29	31	34	35	37	41	45	7.74
OTHER ELECTRONIC EQUIPMENT	4	6	6	6	6	7	7	3.13
MOTOR VEHICLES	2	2	2	2	2	2	2	0.00
AIRCRAFT AND PARTS	945	989	1,004	1,056	1,129	1,215	1,254	4.86
AIRCRAFT ENGINES AND PARTS	1,251	1,316	1,332	1,350	1,404	1,458	1,466	2.18
SHIPBUILDING	6	6	6	4	6	7	7	3.13
ALL OTHER	78	81	80	81	89	95	94	3.02
TOTAL INDIRECT (d)	2,384	2,500	2,530	2,603	2,746	2,908	2,965	3.47

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	796	828	840	832	828	811	792	-0.89
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
353. AIRCRAFT PARTS & EQUIP.NEC, 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
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SUMMARY

DEFENSE PURCHASES								
DIRECT (a)	5,235	5,291	5,488	5,782	6,316	6,990	7,588	7.48
INDIRECT (b)	4,030	4,088	4,147	4,205	4,353	4,566	4,669	2.69
TOTAL	9,265	9,379	9,627	9,987	10,669	11,556	12,257	5.50

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	268	260	256	266	288	329	361	6.78
AMMUNITION	9	9	9	9	10	10	11	4.10
TANKS AND TANK COMPONENTS	2	3	2	2	2	2	2	-7.79
OTHER ORDNANCE	31	29	27	26	25	27	28	-0.70
COMMUNICATIONS EQUIPMENT	55	53	55	57	62	68	71	6.02
OTHER ELECTRONIC EQUIPMENT	3	3	4	4	4	4	4	5.92
MOTOR VEHICLES	0	0	0	0	0	0	0	N/A
AIRCRAFT AND PARTS	3,280	3,353	3,425	3,465	3,566	3,708	3,773	2.39
AIRCRAFT ENGINES AND PARTS	334	328	323	329	343	360	363	2.05
SHIPBUILDING	7	7	7	7	8	8	9	5.15
ALL OTHER	41	43	39	40	45	50	47	1.79
TOTAL INDIRECT (d)	4,030	4,088	4,147	4,205	4,353	4,566	4,669	2.69

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	398	403	399	386	376	361	346	-3.00
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
354. SHIPBUILDING & REPAIRING, 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
DEFENSE PURCHASES								
DIRECT (a)	10,560	10,508	10,557	11,196	12,112	12,988	14,169	6.16
INDIRECT (b)	76	80	77	78	83	89	95	3.50
TOTAL	10,636	10,588	10,634	11,274	12,195	13,077	14,264	6.14

SUMMARY

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	0	0	0	0	0	0	0	N/A
AMMUNITION	0	0	0	0	0	0	0	N/A
TANKS AND TANK COMPONENTS	0	0	0	0	0	0	0	N/A
OTHER ORDNANCE	0	0	0	0	0	0	0	N/A
COMMUNICATIONS EQUIPMENT	2	2	2	2	2	2	2	0.00
OTHER ELECTRONIC EQUIPMENT	0	0	0	0	0	0	0	N/A
MOTOR VEHICLES	0	0	0	0	0	0	0	N/A
AIRCRAFT AND PARTS	2	2	2	2	2	2	2	0.00
AIRCRAFT ENGINES AND PARTS	0	0	0	0	0	0	0	N/A
SHIPBUILDING	22	24	23	24	25	28	29	3.86
ALL OTHER	50	52	50	50	54	57	62	3.58
TOTAL INDIRECT (d)	76	80	77	78	83	89	95	3.50

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	335	353	369	373	375	377	376	1.27
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
312. ELECTRIC MEASURING INSTR. 1985-1991
(In millions of 1985 dollars)

AVG ANN
%GROWTH
1986-1991

1985 1986 1987 1988 1989 1990 1991 1991 1990 1986-1991

SUMMARY

DEFENSE PURCHASES

DIRECT (a) 4,811 5,098 5,364 5,674 6,011 6,465 7,021 6.61

INDIRECT (b) 1,312 1,463 1,593 1,742 1,908 2,112 2,321 9.67

TOTAL 6,123 6,561 6,957 7,416 7,919 8,577 9,342 7.32

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES 27 32 33 38 43 50 60 13.40
AMMUNITION 1 2 2 2 3 3 4 14.87
TANKS AND TANK COMPONENTS 0 0 0 0 0 0 0 N/A
OTHER ORDNANCE 1 2 2 2 2 2 2 0.00
COMMUNICATIONS EQUIPMENT 386 431 475 536 608 697 782 12.65
OTHER ELECTRONIC EQUIPMENT 10 14 15 17 21 24 27 14.04
MOTOR VEHICLES 1 2 2 2 2 2 2 0.00
AIRCRAFT AND PARTS 44 51 58 64 71 80 88 11.53
AIRCRAFT ENGINES AND PARTS 3 3 3 5 5 5 5 10.76
SHIPBUILDING 24 27 27 31 35 38 42 9.24
ALL OTHER 815 899 976 1,045 1,118 1,211 1,309 7.80

TOTAL INDIRECT (d) 1,312 1,463 1,593 1,742 1,908 2,112 2,321 9.67

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT) 86 95 101 103 102 104 104 1.83

Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
316. INDUSTRIAL CONTROLS, 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
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SUMMARY

DEFENSE PURCHASES								
DIRECT (a)	12	13	14	15	17	19	22	11.10
INDIRECT (b)	819	857	909	988	1,084	1,193	1,306	8.79
TOTAL	831	870	923	1,003	1,101	1,212	1,328	8.83

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	8	9	9	10	12	15	15	10.76
AMMUNITION	3	3	3	3	3	5	6	14.87
TANKS AND TANK COMPONENTS	2	2	2	2	2	2	2	0.00
OTHER ORDNANCE	2	2	2	2	2	2	2	0.00
COMMUNICATIONS EQUIPMENT	135	141	150	165	186	208	230	10.28
OTHER ELECTRONIC EQUIPMENT	123	136	153	171	194	221	248	12.77
MOTOR VEHICLES	6	6	5	5	5	7	8	5.92
AIRCRAFT AND PARTS	25	27	28	31	35	37	40	8.18
AIRCRAFT ENGINES AND PARTS	6	6	6	7	7	7	8	5.92
SHIPBUILDING	94	92	93	100	109	119	131	7.32
ALL OTHER	415	433	458	492	529	570	616	7.30
TOTAL INDIRECT (d)	819	857	909	988	1,084	1,193	1,306	8.79

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	53	56	59	61	62	64	65	3.03
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
361. ENGINEERING & SCIENTIFIC INST, 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	AVG ANN %GROWTH 1986-1991
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SUMMARY

DEFENSE PURCHASES								
DIRECT (a)	1,788	1,880	2,041	2,200	2,384	2,595	2,796	8.26
INDIRECT (b)	173	185	200	218	235	250	265	7.45
TOTAL	1,961	2,065	2,241	2,418	2,619	2,845	3,061	8.19

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	3	3	3	4	6	6	6	14.87
AMMUNITION	0	0	0	0	0	0	0	N/A
TANKS AND TANK COMPONENTS	0	0	0	0	0	0	0	N/A
OTHER ORDNANCE	0	0	0	0	0	0	0	N/A
COMMUNICATIONS EQUIPMENT	19	20	22	25	28	32	35	11.84
OTHER ELECTRONIC EQUIPMENT	0	0	0	0	0	0	0	N/A
MOTOR VEHICLES	0	0	0	0	0	0	0	N/A
AIRCRAFT AND PARTS	34	35	39	43	47	52	56	9.86
AIRCRAFT ENGINES AND PARTS	0	0	0	0	2	2	2	N/A
SHIPBUILDING	24	25	26	29	32	36	38	8.73
ALL OTHER	93	102	110	117	120	122	128	4.65
TOTAL INDIRECT (d)	173	185	200	218	235	250	265	7.45

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	140	149	157	157	157	157	155	0.79
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Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

PROJECTED DEFENSE PURCHASES OF
362. MEASURING & CONTROL INSTR. 1985-1991
(In millions of 1985 dollars)

	1985	1986	1987	1988	1989	1990	1991	Avg Ann %Growth 1986-1991
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SUMMARY

DEFENSE PURCHASES	2,347	2,469	2,681	2,904	3,181	3,494	3,838	9.22
DIRECT (a)	486	518	558	605	669	738	807	9.27
INDIRECT (b)								
TOTAL	2,833	2,987	3,239	3,509	3,850	4,232	4,645	9.23

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES	4	5	5	5	7	7	10	14.87
AMMUNITION	3	3	3	3	4	4	6	14.87
TANKS AND TANK COMPONENTS	0	0	0	0	0	0	0	N/A
OTHER ORDNANCE	1	2	2	2	2	2	2	0.00
COMMUNICATIONS EQUIPMENT	49	52	57	65	74	86	97	13.28
OTHER ELECTRONIC EQUIPMENT	3	3	3	3	5	6	6	14.87
MOTOR VEHICLES	9	9	9	8	11	11	14	9.24
AIRCRAFT AND PARTS	111	118	130	148	166	185	206	11.79
AIRCRAFT ENGINES AND PARTS	9	9	11	12	12	13	14	9.24
SHIPBUILDING	40	41	42	46	53	58	65	9.65
ALL OTHER	257	276	296	313	335	366	387	6.99
TOTAL INDIRECT (d)	486	518	558	605	669	738	807	9.27

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)	469	498	525	522	520	516	513	0.60
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Source: Defense Economic Impact Modeling System (DEIMS). March 31, 1986.

PROJECTED DEFENSE PURCHASES OF

367. OPTICAL INSTRS & LENSES, 1985-1991

(In millions of 1985 dollars)

AVG ANN
%GROWTH
1986-1991

1985 1986 1987 1988 1989 1990 1991

SUMMARY

DEFENSE PURCHASES

DIRECT (a)

INDIRECT (b)

TOTAL

822 894 1,023 1,199 1,400 1,562 1,709 13.84
327 346 369 384 402 421 441 4.97

1,149 1,240 1,392 1,583 1,802 1,983 2,150 11.64

INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR (c)

MISSILES

AMMUNITION

TANKS AND TANK COMPONENTS

OTHER ORDNANCE

COMMUNICATIONS EQUIPMENT

OTHER ELECTRONIC EQUIPMENT

MOTOR VEHICLES

AIRCRAFT AND PARTS

AIRCRAFT ENGINES AND PARTS

SHIPBUILDING

ALL OTHER

10 12 12 12 13 14 16 5.92
1 3 3 3 3 3 3 0.00
0 0 0 0 0 0 0 N/A
1 1 1 1 1 1 1 0.00
120 127 135 142 150 159 168 5.76
1 1 1 1 1 1 1 0.00
0 0 0 0 0 0 0 N/A
111 115 122 125 127 130 134 3.11
17 18 18 18 18 18 19 1.09
3 3 3 3 3 3 3 0.00
63 66 74 79 86 92 96 7.78

TOTAL INDIRECT (d)

327 346 369 384 402 421 441 4.97

FOREIGN MILITARY SALES (FMS) (e)

FMS (DIRECT PLUS INDIRECT)

103 113 124 128 130 132 129 2.68

Source: Defense Economic Impact Modeling System (DEIMS), March 31, 1986.

SECTION IV: INDIVIDUAL STATE PROJECTIONS

These tables present state-level estimates of defense and defense-related expenditures in calendar years 1986 through 1991. A separate table is provided for each of the 50 states and the District of Columbia. Each table is divided into two parts, the first providing a general overview of projected spending trends over the forecast period and the second presenting estimates for the industrial sectors projected to lead in defense or defense-related sales statewide.

The first section of each table presents estimates of direct defense purchases and pay and of indirect defense purchases for each year of the projection period. (For purposes of comparison, projections of nondefense expenditures and of total economic activity are also provided.) The second section records estimates of the dollar value of direct and indirect purchases from the eight industrial sectors projected to lead in defense sales, and the eight projected to lead in indirect sales stemming from DoD purchases, statewide over the forecast period.

The industrial sectors reported in Section III are at the 4-digit SIC level; the industrial sectors shown in the state tables of Section IV, however, are aggregates (at the 3-digit level) of the 4-digit SIC industries. Industrial projections are made for 429 separate industries. For the purposes of the state-level reports, these are grouped into 79 industrial sectors. Thus, industrial sector 60, "Aircraft and Parts", used in the state tables, includes three industries: industry 351, "Aircraft"; industry 352, "Aircraft Engines and Engine Parts"; and industry 353, "Aircraft Parts and Equipment, NEC."

ALABAMA
SUMMARY
(MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	3,239	3,272	3,332	3,471	3,612	3,748
INDIRECT FROM PURCHASES	2,050	2,117	2,190	2,293	2,379	2,454
INDIRECT FROM PAY	1,408	1,394	1,408	1,441	1,479	1,519
NONDEFENSE	101,067	103,812	107,698	110,914	115,461	119,503
TOTAL	107,765	110,595	114,628	118,120	122,931	127,225

LARGEST SECTORS
(MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	1,871	1,864	1,887	1,949	2,011	2,077
77. MISC. SERVICES	188	194	199	211	223	233
13. ORDNANCE & ACCESSORIES	187	191	191	197	207	216
60. AIRCRAFT & PARTS	160	160	158	160	162	163
56. RADIO, TV, & COMMUNICATION EQ.	129	134	140	150	163	173
11. NEW CONSTRUCTION	101	106	115	130	139	147
73. BUSINESS SERVICES	90	97	101	106	112	117
65. TRANSPORTATION & WAREHOUSING	69	69	69	71	73	75

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

37. PRIMARY FERROUS METALS	201	199	198	204	206	210
38. NONFERROUS METALS	167	170	173	180	187	193
73. BUSINESS SERVICES	149	154	159	167	174	180
68. UTILITIES	100	101	104	110	114	118
27. CHEMICALS & PRODUCTS	92	97	102	110	116	121
69. WHOLESALE & RETAIL TRADE	82	85	89	94	98	102
60. AIRCRAFT & PARTS	76	75	71	66	61	56
57. ELECTRONIC COMPONENTS & ACCESS.	76	85	93	100	107	113

ALASKA

SUMMARY (MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	956	962	987	1,034	1,074	1,114
INDIRECT FROM PURCHASES	266	271	278	292	305	316
INDIRECT FROM PAY	174	173	171	174	177	182
NONDEFENSE	13,370	13,670	13,756	13,851	14,131	14,592
TOTAL	14,766	15,076	15,193	15,350	15,687	16,204

LARGEST SECTORS (MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	622	619	626	642	660	682
11. NEW CONSTRUCTION	115	121	132	148	158	167
27. CHEMICALS & PRODUCTS	43	44	46	48	51	52
73. BUSINESS SERVICES	43	44	45	49	51	54
31. PET REFINING & REL. PROD.	40	40	40	42	44	46
65. TRANSPORTATION & WAREHOUSING	31	31	32	33	34	35
68. UTILITIES	18	19	21	22	23	24
71. REAL ESTATE & RENTAL	8	8	9	10	11	11

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

8. CRUDE PETROLEUM & N. GAS	48	45	44	44	46	49
68. UTILITIES	39	40	42	45	47	48
73. BUSINESS SERVICES	33	34	34	35	36	36
69. WHOLESALE & RETAIL TRADE	31	32	34	37	40	41
65. TRANSPORTATION & WAREHOUSING	30	31	32	35	36	37
71. REAL ESTATE & RENTAL	20	21	22	24	25	25
11. NEW CONSTRUCTION	12	12	12	12	12	12
70. FINANCE & INSURANCE	7	7	7	8	8	8

ARIZONA
SUMMARY
(MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	3,072	3,132	3,207	3,332	3,462	3,587
INDIRECT FROM PURCHASES	2,109	2,208	2,305	2,403	2,498	2,578
INDIRECT FROM PAY	1,141	1,154	1,185	1,228	1,275	1,325
NONDEFENSE	86,309	90,047	94,323	97,714	102,483	107,313
TOTAL	92,631	96,540	101,020	104,677	109,718	114,803

LARGEST SECTORS
(MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	1,180	1,171	1,185	1,212	1,239	1,270
13. ORDNANCE & ACCESSORIES	469	477	492	519	552	580
60. AIRCRAFT & PARTS	373	379	379	380	380	382
56. RADIO, TV, & COMMUNICATION EQ.	363	382	398	424	454	482
11. NEW CONSTRUCTION	110	117	126	138	145	151
65. TRANSPORTATION & WAREHOUSING	72	73	74	77	80	83
73. BUSINESS SERVICES	59	64	67	70	74	78
62. INSTRUMENTS & SUPPLIES	58	61	63	66	69	72

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

57. ELECTRONIC COMPONENTS & ACCESS.	348	380	407	434	472	504
73. BUSINESS SERVICES	215	227	241	257	272	287
60. AIRCRAFT & PARTS	196	199	199	195	184	173
69. WHOLESALE & RETAIL TRADE	123	128	133	139	145	149
38. NONFERROUS METALS	123	129	134	141	148	154
6. NONFERROUS METAL MINING	119	112	114	117	119	122
68. UTILITIES	115	117	120	126	131	134
56. RADIO, TV, & COMMUNICATION EQ.	100	111	116	118	120	120

ARKANSAS

SUMMARY (MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	1,326	1,331	1,362	1,430	1,495	1,554
INDIRECT FROM PURCHASES	1,185	1,226	1,279	1,350	1,413	1,468
INDIRECT FROM PAY	890	883	896	921	949	979
NONDEFENSE	60,873	62,860	65,643	67,907	71,019	73,868
TOTAL	64,275	66,300	69,180	71,608	74,876	77,869

LARGEST SECTORS (MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	589	585	592	604	617	632
13. ORDNANCE & ACCESSORIES	265	264	266	283	305	323
11. NEW CONSTRUCTION	101	106	116	131	140	148
27. CHEMICALS & PRODUCTS	86	88	91	98	103	108
65. TRANSPORTATION & WAREHOUSING	49	49	49	51	52	54
32. RUBBER & MISC. PLASTICS PROD.	26	27	27	29	31	33
68. UTILITIES	24	24	26	28	29	31
56. RADIO, TV, & COMMUNICATION EQ.	23	24	25	27	28	30

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

38. NONFERROUS METALS	129	139	145	152	159	166
53. ELECTRICAL MACHINERY	74	79	82	85	88	90
68. UTILITIES	69	70	72	77	80	83
73. BUSINESS SERVICES	62	64	66	69	73	76
69. WHOLESALE & RETAIL TRADE	59	60	63	67	71	74
65. TRANSPORTATION & WAREHOUSING	50	51	53	56	58	59
27. CHEMICALS & PRODUCTS	46	50	53	58	61	65
56. RADIO, TV, & COMMUNICATION EQ.	44	47	50	52	52	52

CALIFORNIA

SUMMARY (MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	46,193	47,301	48,513	50,627	52,867	55,019
INDIRECT FROM PURCHASES	22,929	23,863	24,779	25,813	26,728	27,469
INDIRECT FROM PAY	10,728	10,760	10,958	11,298	11,663	12,047
NONDEFENSE	771,964	803,733	839,458	868,649	908,134	946,329
TOTAL	851,815	885,657	923,709	956,387	999,392	1,040,864

LARGEST SECTORS (MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	12,377	12,308	12,458	12,793	13,146	13,544
13. ORDNANCE & ACCESSORIES	7,259	7,317	7,428	7,757	8,197	8,555
56. RADIO, TV, & COMMUNICATION EQ.	6,511	6,810	7,120	7,616	8,192	8,688
60. AIRCRAFT & PARTS	6,095	6,190	6,231	6,311	6,363	6,440
73. BUSINESS SERVICES	1,588	1,737	1,819	1,902	1,989	2,090
62. INSTRUMENTS & SUPPLIES	1,455	1,538	1,593	1,662	1,732	1,808
53. ELECTRICAL MACHINERY	1,360	1,444	1,493	1,521	1,569	1,631
61. OTHER TRANSPORTATION EQ.	1,281	1,265	1,281	1,343	1,379	1,441

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

73. BUSINESS SERVICES	2,304	2,428	2,552	2,709	2,857	2,996
57. ELECTRONIC COMPONENTS & ACCESS.	2,211	2,365	2,547	2,730	2,924	3,083
69. WHOLESALE & RETAIL TRADE	2,119	2,220	2,309	2,414	2,522	2,618
68. UTILITIES	1,722	1,767	1,824	1,901	1,976	2,045
65. TRANSPORTATION & WAREHOUSING	1,598	1,650	1,705	1,766	1,821	1,870
60. AIRCRAFT & PARTS	1,318	1,306	1,291	1,261	1,191	1,107
71. REAL ESTATE & RENTAL	1,298	1,368	1,418	1,482	1,546	1,602
56. RADIO, TV, & COMMUNICATION EQ.	1,194	1,282	1,332	1,348	1,346	1,319

COLORADO

**SUMMARY
(MILLIONS OF 1985 DOLLARS)**

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	3,079	3,143	3,220	3,339	3,465	3,598
INDIRECT FROM PURCHASES	2,169	2,245	2,315	2,395	2,470	2,536
INDIRECT FROM PAY	1,610	1,636	1,678	1,738	1,800	1,865
NONDEFENSE	116,276	122,133	127,499	131,885	137,868	143,448
TOTAL	123,133	129,158	134,712	139,356	145,603	151,447

**LARGEST SECTORS
(MILLIONS OF 1985 DOLLARS)**

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	1,549	1,538	1,556	1,590	1,626	1,669
13. ORDNANCE & ACCESSORIES	277	284	288	296	308	321
56. RADIO, TV, & COMMUNICATION EQ.	269	282	293	312	332	351
51. OFFICE, COMPUTING & ACCT. MACH.	140	155	166	180	197	212
11. NEW CONSTRUCTION	138	144	155	172	184	193
53. ELECTRICAL MACHINERY	122	130	132	133	136	141
73. BUSINESS SERVICES	88	95	99	105	110	115
65. TRANSPORTATION & WAREHOUSING	75	77	79	81	84	87

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

73. BUSINESS SERVICES	286	302	315	332	349	365
8. CRUDE PETROLEUM & N. GAS	230	218	205	201	209	221
60. AIRCRAFT & PARTS	200	199	195	184	168	152
68. UTILITIES	112	115	119	125	129	134
69. WHOLESALE & RETAIL TRADE	107	113	119	125	130	136
57. ELECTRONIC COMPONENTS & ACCESS.	93	98	105	114	122	129
56. RADIO, TV, & COMMUNICATION EQ.	83	87	91	95	96	95
65. TRANSPORTATION & WAREHOUSING	82	86	89	92	95	98

CONNECTICUT

SUMMARY (MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	6,682	6,768	6,860	7,059	7,286	7,503
INDIRECT FROM PURCHASES	4,430	4,555	4,666	4,792	4,888	4,969
INDIRECT FROM PAY	1,381	1,396	1,424	1,466	1,509	1,553
NONDEFENSE	102,511	107,700	113,244	117,253	122,468	127,423
TOTAL	115,003	120,417	126,193	130,570	136,150	141,447

LARGEST SECTORS (MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

60. AIRCRAFT & PARTS	2,687	2,713	2,703	2,727	2,768	2,811
61. OTHER TRANSPORTATION EQ.	1,349	1,343	1,371	1,409	1,464	1,527
82. FEDERAL GOVERNMENT WAGES & SALARIES	561	558	564	578	592	609
56. RADIO, TV, & COMMUNICATION EQ.	323	338	353	376	404	429
65. TRANSPORTATION & WAREHOUSING	237	240	246	261	276	288
62. INSTRUMENTS & SUPPLIES	230	240	248	262	275	288
43. ENGINES & TURBINES	175	178	185	188	183	171
13. ORDNANCE & ACCESSORIES	162	167	169	179	190	199

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

60. AIRCRAFT & PARTS	570	561	538	513	490	458
69. WHOLESALE & RETAIL TRADE	543	551	565	584	598	613
65. TRANSPORTATION & WAREHOUSING	360	363	373	382	386	391
68. UTILITIES	354	355	362	374	381	389
73. BUSINESS SERVICES	266	282	295	311	325	338
71. REAL ESTATE & RENTAL	231	236	241	250	255	261
57. ELECTRONIC COMPONENTS & ACCESS.	217	238	258	277	298	315
38. NONFERROUS METALS	207	218	225	235	245	255

DELAWARE

SUMMARY
(MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	417	420	426	442	458	473
INDIRECT FROM PURCHASES	352	362	376	394	408	421
INDIRECT FROM PAY	345	344	351	380	370	381
NONDEFENSE	23,681	24,514	25,651	26,518	27,630	28,705
TOTAL	24,795	25,640	26,803	27,714	28,866	29,979

LARGEST SECTORS
(MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	199	198	200	205	209	215
31. PET REFINING & REL. PROD.	66	66	65	68	71	74
65. TRANSPORTATION & WAREHOUSING	26	26	26	26	27	27
77. MISC. SERVICES	24	26	27	28	30	31
27. CHEMICALS & PRODUCTS	14	14	15	16	17	17
11. NEW CONSTRUCTION	11	12	13	14	16	16
73. BUSINESS SERVICES	9	9	10	10	11	11
40. FAB. STRUCTURAL METAL PRODUCTS	8	8	9	9	9	10

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

28. PLASTICS & SYNTHETIC MATLS.	47	49	52	55	58	61
73. BUSINESS SERVICES	38	41	43	45	47	50
27. CHEMICALS & PRODUCTS	28	29	30	32	33	34
31. PET REFINING & REL. PROD.	22	22	23	24	24	25
68. UTILITIES	20	21	21	22	23	23
37. PRIMARY FERROUS METALS	19	19	19	20	20	21
59. MOTOR VEHICLES & EQUIPMENT	18	18	19	20	21	22
65. TRANSPORTATION & WAREHOUSING	17	18	18	18	19	19

DIST. OF COLUM.

SUMMARY
(MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	1,517	1,552	1,594	1,670	1,744	1,820
INDIRECT FROM PURCHASES	485	506	529	558	580	602
INDIRECT FROM PAY	498	490	493	507	519	532
NONDEFENSE	40,341	40,699	41,815	43,063	44,424	45,715
TOTAL	42,841	43,247	44,432	45,797	47,268	48,670

LARGEST SECTORS
(MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	998	997	1,011	1,050	1,091	1,133
77. MISC. SERVICES	217	239	251	263	276	291
73. BUSINESS SERVICES	95	100	103	109	114	119
11. NEW CONSTRUCTION	46	49	54	61	66	69
51. OFFICE, COMPUTING & ACCT. MACH.	33	36	39	43	47	50
65. TRANSPORTATION & WAREHOUSING	26	27	27	28	30	31
40. FAB. STRUCTURAL METAL PRODUCTS	19	20	20	21	21	22
68. UTILITIES	13	14	15	16	17	18

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

73. BUSINESS SERVICES	182	187	195	206	217	226
68. UTILITIES	58	61	63	67	70	72
69. WHOLESALE & RETAIL TRADE	57	60	64	67	71	74
71. REAL ESTATE & RENTAL	50	53	56	59	61	64
65. TRANSPORTATION & WAREHOUSING	44	46	48	50	52	53
70. FINANCE & INSURANCE	18	19	20	20	21	22
66. COMMUNICATION EXC. RADIO & TV	14	16	17	18	19	20
74. EATING & DRINKING PLACES	14	15	16	17	18	18

FLORIDA
SUMMARY
(MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE	10,707	10,911	11,215	11,678	12,144	12,599
DIRECT PURCHASES	5,098	5,351	5,604	5,883	6,126	6,330
PERSONNEL PAY	4,786	4,839	4,938	5,095	5,268	5,454
NONDEFENSE	323,767	337,355	351,432	363,281	379,756	395,553
TOTAL	344,358	358,457	373,189	385,938	403,293	419,936

LARGEST SECTORS
(MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82 FEDERAL GOVERNMENT WAGES & SALARIES	4,642	4,604	4,656	4,750	4,848	4,962
56 RADIO TV, & COMMUNICATION EQ.	1,497	1,575	1,649	1,762	1,893	2,011
60 AIRCRAFT & PARTS	987	1,016	1,049	1,076	1,095	1,117
13 ORDNANCE & ACCESSORIES	924	943	981	1,040	1,106	1,158
27 CHEMICALS & PRODUCTS	313	320	332	355	374	387
65 TRANSPORTATION & WAREHOUSING	302	306	311	322	334	345
73 BUSINESS SERVICES	276	297	310	326	341	358
11 NEW CONSTRUCTION	257	269	291	324	345	362

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

88 PERSONAL SERVICES	848	899	940	994	1,048	1,099
57 WHOLESALE & RETAIL TRADE	400	418	435	456	476	494
90 UTILITIES	394	401	414	434	451	466
65 TRANSPORTATION & WAREHOUSING	321	331	342	354	364	372
56 RADIO TV, & COMMUNICATION EQ.	311	341	360	370	375	374
60 ELECTRONIC COMPONENTS & ACCESS.	288	316	346	377	409	437
53 REAL ESTATE & RENTAL	244	256	265	278	290	300
11 NEW CONSTRUCTION	202	204	208	213	219	226

GEORGIA
SUMMARY
(MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	5,588	5,645	5,778	6,008	6,199	6,396
INDIRECT FROM PURCHASES	3,065	3,166	3,289	3,434	3,541	3,633
INDIRECT FROM PAY	2,690	2,685	2,732	2,809	2,891	2,976
NONDEFENSE	182,915	188,529	196,648	202,800	211,177	218,675
TOTAL	194,258	200,026	208,447	215,052	223,808	231,680

LARGEST SECTORS
(MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	2,948	2,934	2,970	3,056	3,145	3,243
60. AIRCRAFT & PARTS	1,360	1,393	1,433	1,477	1,501	1,530
11. NEW CONSTRUCTION	298	312	339	381	409	431
65. TRANSPORTATION & WAREHOUSING	178	179	182	189	195	201
68. UTILITIES	99	101	106	114	119	125
73. BUSINESS SERVICES	91	95	100	107	113	119
77. MISC. SERVICES	54	58	61	64	68	71
62. INSTRUMENTS & SUPPLIES	53	55	57	60	63	65

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

73. BUSINESS SERVICES	390	412	433	456	479	501
68. UTILITIES	221	223	229	239	246	252
69. WHOLESALE & RETAIL TRADE	209	215	223	233	240	246
65. TRANSPORTATION & WAREHOUSING	173	176	180	186	189	190
60. AIRCRAFT & PARTS	161	164	170	171	161	150
38. NONFERROUS METALS	153	161	169	179	187	194
27. CHEMICALS & PRODUCTS	119	123	128	135	140	143
71. REAL ESTATE & RENTAL	111	114	117	122	125	127

HAWAII

SUMMARY (MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	2,438	2,443	2,491	2,586	2,676	2,773
INDIRECT FROM PURCHASES	304	316	331	351	366	379
INDIRECT FROM PAY	469	471	478	491	505	518
NONDEFENSE	29,874	30,986	32,052	32,867	34,013	35,060
TOTAL	33,085	34,216	35,353	36,295	37,560	38,730

LARGEST SECTORS (MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	1,998	1,988	2,013	2,068	2,129	2,200
11. NEW CONSTRUCTION	141	149	163	184	197	208
31. PET REFINING & REL. PROD.	65	65	64	67	69	72
73. BUSINESS SERVICES	49	51	53	57	61	64
68. UTILITIES	45	46	48	52	54	57
65. TRANSPORTATION & WAREHOUSING	39	40	40	41	43	44
77. MISC. SERVICES	15	15	16	17	18	19
61. OTHER TRANSPORTATION EQ.	11	11	11	12	13	13

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

73. BUSINESS SERVICES	65	69	71	75	79	82
68. UTILITIES	54	55	57	61	63	65
69. WHOLESALE & RETAIL TRADE	37	38	41	45	48	50
65. TRANSPORTATION & WAREHOUSING	32	33	35	37	38	39
71. REAL ESTATE & RENTAL	25	26	27	29	31	32
70. FINANCE & INSURANCE	15	16	17	18	19	20
11. NEW CONSTRUCTION	12	14	14	14	14	15
14. FOOD & KINDRED PRODUCTS	11	12	12	13	13	13

IDAHO

SUMMARY
(MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	303	303	309	320	328	338
INDIRECT FROM PURCHASES	330	342	358	377	392	404
INDIRECT FROM PAY	367	368	373	384	396	407
NONDEFENSE	24,132	25,112	26,195	27,273	28,478	29,554
TOTAL	25,131	26,125	27,235	28,354	29,594	30,703

LARGEST SECTORS
(MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	232	230	232	236	241	246
11. NEW CONSTRUCTION	24	25	27	31	33	35
65. TRANSPORTATION & WAREHOUSING	11	11	11	11	11	12
14. FOOD & KINDRED PRODUCTS	9	9	9	9	10	10

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

27. CHEMICALS & PRODUCTS	55	58	61	64	66	68
73. BUSINESS SERVICES	37	39	40	42	44	45
6. NONFERROUS METAL MINING	29	28	29	30	31	32
57. ELECTRONIC COMPONENTS & ACCESS.	29	31	33	35	38	40
1. AGRICULTURAL PRODUCTS	23	25	27	28	30	31
13. ORDNANCE & ACCESSORIES	18	17	17	17	16	15
20. LUMBER & WOOD PRODUCTS	18	18	19	20	21	22
14. FOOD & KINDRED PRODUCTS	15	16	16	17	17	18

ILLINOIS

SUMMARY (MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	4,461	4,525	4,629	4,852	5,067	5,269
INDIRECT FROM PURCHASES	6,126	6,259	6,392	6,625	6,802	6,943
INDIRECT FROM PAY	4,716	4,638	4,666	4,766	4,874	4,986
NONDEFENSE	332,817	339,368	350,154	359,191	371,403	382,342
TOTAL	348,120	354,791	365,841	375,434	388,146	399,540

LARGEST SECTORS (MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	1,781	1,772	1,795	1,847	1,903	1,965
56. RADIO, TV, & COMMUNICATION EQ.	461	477	496	533	575	611
65. TRANSPORTATION & WAREHOUSING	251	251	252	259	265	271
47. METALWORKING MACH. & EQ.	189	195	197	204	208	210
11. NEW CONSTRUCTION	168	176	191	214	230	242
13. ORDNANCE & ACCESSORIES	153	154	155	162	171	177
60. AIRCRAFT & PARTS	152	152	150	150	150	151
77. MISC. SERVICES	151	161	167	176	186	195

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

73. BUSINESS SERVICES	768	798	831	874	913	949
37. PRIMARY FERROUS METALS	433	424	405	414	414	418
56. RADIO, TV, & COMMUNICATION EQ.	354	365	372	374	366	353
38. NONFERROUS METALS	352	358	351	362	373	381
57. ELECTRONIC COMPONENTS & ACCESS.	263	275	290	307	322	334
31. PET REFINING & REL. PROD.	233	229	227	231	237	242
42. OTHER FAB. METAL PRODUCTS	233	240	248	260	270	279
27. CHEMICALS & PRODUCTS	223	231	241	254	262	269

INDIANA

SUMMARY (MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	3,799	3,791	3,819	3,988	4,197	4,397
INDIRECT FROM PURCHASES	4,301	4,370	4,460	4,610	4,712	4,807
INDIRECT FROM PAY	2,201	2,190	2,215	2,261	2,310	2,363
NONDEFENSE	165,181	170,376	177,448	182,684	189,307	195,427
TOTAL	175,481	180,726	187,941	193,544	200,526	206,995

LARGEST SECTORS (MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	823	821	832	862	892	923
59. MOTOR VEHICLES & EQUIPMENT	758	705	675	696	759	827
56. RADIO, TV, & COMMUNICATION EQ.	698	722	750	807	871	923
60. AIRCRAFT & PARTS	473	476	473	475	473	475
65. TRANSPORTATION & WAREHOUSING	131	130	131	136	141	145
13. ORDNANCE & ACCESSORIES	122	125	128	135	143	151
27. CHEMICALS & PRODUCTS	64	65	68	73	77	80
31. PET REFINING & REL. PROD.	62	62	61	64	67	70

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

37. PRIMARY FERROUS METALS	651	636	631	652	657	670
38. NONFERROUS METALS	334	340	348	363	376	387
60. AIRCRAFT & PARTS	309	311	310	299	273	251
69. WHOLESALE & RETAIL TRADE	234	232	233	243	259	273
56. RADIO, TV, & COMMUNICATION EQ.	198	206	206	206	200	192
73. BUSINESS SERVICES	196	205	213	223	232	240
65. TRANSPORTATION & WAREHOUSING	162	160	161	166	174	180
68. UTILITIES	158	156	157	164	173	182

IOWA

SUMMARY
(MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	815	832	856	901	946	986
INDIRECT FROM PURCHASES	1,131	1,162	1,208	1,254	1,282	1,304
INDIRECT FROM PAY	1,230	1,214	1,229	1,247	1,264	1,285
NONDEFENSE	79,989	82,607	86,665	88,753	91,248	93,521
TOTAL	83,164	85,815	89,958	92,155	94,740	97,096

LARGEST SECTORS
(MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

56. RADIO, TV, & COMMUNICATION EQ.	226	232	241	260	279	295
82. FEDERAL GOVERNMENT WAGES & SALARIES	167	166	168	172	176	180
13. ORDNANCE & ACCESSORIES	60	61	62	66	70	73
62. INSTRUMENTS & SUPPLIES	42	44	45	48	51	54
65. TRANSPORTATION & WAREHOUSING	42	42	42	43	44	45
73. BUSINESS SERVICES	36	38	39	41	43	45
11. NEW CONSTRUCTION	26	28	30	35	37	39
14. FOOD & KINDRED PRODUCTS	25	25	26	26	27	27

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

73. BUSINESS SERVICES	108	114	118	124	129	134
38. NONFERROUS METALS	101	104	106	109	113	116
1. AGRICULTURAL PRODUCTS	90	87	90	90	89	88
56. RADIO, TV, & COMMUNICATION EQ.	73	70	71	74	72	68
69. WHOLESALE & RETAIL TRADE	45	47	49	52	55	57
70. FINANCE & INSURANCE	45	47	49	51	54	56
14. FOOD & KINDRED PRODUCTS	43	44	45	47	48	49
42. OTHER FAB. METAL PRODUCTS	41	44	47	50	52	54

KANSAS
SUMMARY
(MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	2,956	2,994	3,031	3,112	3,193	3,279
INDIRECT FROM PURCHASES	1,950	1,963	1,990	2,033	2,065	2,089
INDIRECT FROM PAY	1,059	1,038	1,050	1,072	1,097	1,124
NONDEFENSE	76,732	77,883	80,717	83,171	86,551	89,533
TOTAL	82,697	83,878	86,788	89,387	92,906	96,024

LARGEST SECTORS
(MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

60. AIRCRAFT & PARTS	1,222	1,232	1,228	1,238	1,244	1,256
82. FEDERAL GOVERNMENT WAGES & SALARIES	826	819	828	844	862	886
56. RADIO, TV, & COMMUNICATION EQ.	237	250	262	277	296	311
77. MISC. SERVICES	102	105	108	114	121	126
65. TRANSPORTATION & WAREHOUSING	77	77	78	81	84	87
13. ORDNANCE & ACCESSORIES	60	60	60	62	66	68
11. NEW CONSTRUCTION	57	59	63	70	75	79
73. BUSINESS SERVICES	49	51	52	56	58	61

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

60. AIRCRAFT & PARTS	477	468	458	446	424	396
8. CRUDE PETROLEUM & N. GAS	192	177	168	166	177	187
69. WHOLESALE & RETAIL TRADE	129	133	138	143	147	151
68. UTILITIES	116	118	121	125	129	132
73. BUSINESS SERVICES	100	105	110	116	123	128
65. TRANSPORTATION & WAREHOUSING	99	101	104	107	109	110
31. PET REFINING & REL. PROD.	88	89	90	93	95	97
71. REAL ESTATE & RENTAL	76	79	81	84	87	89

KENTUCKY

SUMMARY (MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	1,933	1,938	1,973	2,054	2,131	2,207
INDIRECT FROM PURCHASES	1,675	1,703	1,739	1,815	1,881	1,940
INDIRECT FROM PAY	1,282	1,261	1,261	1,281	1,310	1,342
NONDEFENSE	93,333	95,205	97,492	99,678	103,365	106,738
TOTAL	98,223	100,108	102,465	104,827	108,686	112,227

LARGEST SECTORS (MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	1,269	1,262	1,277	1,310	1,346	1,388
27. CHEMICALS & PRODUCTS	200	204	211	227	240	249
11. NEW CONSTRUCTION	74	78	85	96	103	108
31. PET REFINING & REL. PROD.	72	72	71	74	77	81
65. TRANSPORTATION & WAREHOUSING	68	67	67	68	70	72
77. MISC. SERVICES	39	39	40	43	45	47
68. UTILITIES	36	35	38	40	42	44
73. BUSINESS SERVICES	18	19	19	21	22	24

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

7. COAL MINING	250	250	254	261	267	274
38. NONFERROUS METALS	164	167	171	178	185	191
73. BUSINESS SERVICES	117	120	123	128	133	138
37. PRIMARY FERROUS METALS	99	97	97	101	102	105
68. UTILITIES	80	80	83	88	92	94
27. CHEMICALS & PRODUCTS	76	79	83	88	92	95
53. ELECTRICAL MACHINERY	63	67	67	68	69	70
65. TRANSPORTATION & WAREHOUSING	51	52	53	56	57	58

LOUISIANA

SUMMARY
(MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	3,230	3,222	3,290	3,447	3,572	3,709
INDIRECT FROM PURCHASES	2,624	2,635	2,708	2,817	2,925	3,070
INDIRECT FROM PAY	1,551	1,538	1,558	1,591	1,634	1,685
NONDEFENSE	123,011	126,089	130,843	133,309	137,735	142,490
TOTAL	130,415	133,484	138,400	141,163	145,867	150,918

LARGEST SECTORS
(MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	1,028	1,021	1,033	1,055	1,080	1,108
61. OTHER TRANSPORTATION EQ.	1,003	982	995	1,036	1,061	1,105
31. PET REFINING & REL. PROD.	233	232	230	241	252	263
11. NEW CONSTRUCTION	230	242	265	300	322	340
65. TRANSPORTATION & WAREHOUSING	181	180	181	187	194	201
27. CHEMICALS & PRODUCTS	128	131	135	145	154	160
73. BUSINESS SERVICES	62	64	67	72	77	81
77. MISC. SERVICES	61	62	63	67	71	74

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

8. CRUDE PETROLEUM & N. GAS	513	462	441	439	460	479
31. PET REFINING & REL. PROD.	314	320	336	355	373	394
73. BUSINESS SERVICES	265	279	290	308	320	334
27. CHEMICALS & PRODUCTS	248	264	280	297	312	327
69. WHOLESALE & RETAIL TRADE	171	173	180	191	202	210
68. UTILITIES	156	156	161	171	177	185
65. TRANSPORTATION & WAREHOUSING	148	147	152	158	165	172
71. REAL ESTATE & RENTAL	90	91	93	98	101	104

MAINE

SUMMARY (MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	1,174	1,181	1,213	1,277	1,340	1,405
INDIRECT FROM PURCHASES	704	733	761	791	819	850
INDIRECT FROM PAY	422	421	426	435	445	454
NONDEFENSE	27,857	29,017	30,188	30,948	32,097	33,087
TOTAL	30,157	31,352	32,587	33,451	34,701	35,796

LARGEST SECTORS (MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

61. OTHER TRANSPORTATION EQ.	542	544	562	596	631	669
82. FEDERAL GOVERNMENT WAGES & SALARIES	384	382	386	396	407	419
65. TRANSPORTATION & WAREHOUSING	48	48	49	52	55	58
13. ORDNANCE & ACCESSORIES	48	50	51	54	58	61
11. NEW CONSTRUCTION	38	40	44	49	53	56
73. BUSINESS SERVICES	17	18	18	20	21	22
66. COMMUNICATION EXC. RADIO & TV	17	17	17	18	20	21
69. WHOLESALE & RETAIL TRADE	13	13	13	14	15	16

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

69. WHOLESALE & RETAIL TRADE	99	100	103	108	111	116
57. ELECTRONIC COMPONENTS & ACCESS.	71	82	88	90	97	105
65. TRANSPORTATION & WAREHOUSING	60	60	62	64	65	67
68. UTILITIES	58	57	59	62	64	66
24. PAPER & ALLIED PRODUCTS	57	61	63	66	70	73
60. AIRCRAFT & PARTS	41	40	38	38	36	34
73. BUSINESS SERVICES	35	36	37	39	41	42
71. REAL ESTATE & RENTAL	33	33	34	35	36	38

MARYLAND

SUMMARY
(MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	6,450	6,611	6,815	7,165	7,524	7,860
INDIRECT FROM PURCHASES	2,972	3,081	3,192	3,337	3,462	3,564
INDIRECT FROM PAY	1,784	1,768	1,785	1,829	1,871	1,916
NONDEFENSE	127,528	130,057	133,881	137,502	141,962	145,830
TOTAL	138,735	141,517	145,672	149,832	154,818	159,169

LARGEST SECTORS
(MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	2,602	2,595	2,629	2,724	2,819	2,918
56. RADIO, TV, & COMMUNICATION EQ.	1,743	1,809	1,896	2,034	2,187	2,314
73. BUSINESS SERVICES	293	313	324	341	357	374
77. MISC. SERVICES	207	229	241	253	266	280
51. OFFICE, COMPUTING & ACCT. MACH.	206	225	245	265	288	309
11. NEW CONSTRUCTION	197	208	225	249	263	276
60. AIRCRAFT & PARTS	180	179	176	174	172	171
53. ELECTRICAL MACHINERY	162	171	176	181	187	194

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

73. BUSINESS SERVICES	466	490	512	540	567	591
69. WHOLESALE & RETAIL TRADE	342	360	378	399	422	441
68. UTILITIES	274	283	293	309	324	337
65. TRANSPORTATION & WAREHOUSING	240	249	259	271	282	291
71. REAL ESTATE & RENTAL	229	242	253	267	282	294
56. RADIO, TV, & COMMUNICATION EQ.	215	222	231	236	235	229
37. PRIMARY FERROUS METALS	110	106	104	106	105	105
74. EATING & DRINKING PLACES	103	109	114	120	127	134

MASSACHUSETTS

SUMMARY (MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	7,835	8,200	8,459	8,859	9,297	9,723
INDIRECT FROM PURCHASES	5,724	5,988	6,241	6,522	6,774	6,980
INDIRECT FROM PAY	2,672	2,646	2,665	2,732	2,807	2,878
NONDEFENSE	190,119	196,048	204,015	211,194	220,763	229,203
TOTAL	206,349	212,881	221,380	229,307	239,641	248,784

LARGEST SECTORS (MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

56. RADIO, TV, & COMMUNICATION EQ.	1,763	1,845	1,930	2,055	2,193	2,317
73. BUSINESS SERVICES	900	1,004	1,057	1,096	1,143	1,201
82. FEDERAL GOVERNMENT WAGES & SALARIES	895	891	902	930	958	988
60. AIRCRAFT & PARTS	718	726	731	756	784	809
13. ORDNANCE & ACCESSORIES	610	631	627	650	676	695
53. ELECTRICAL MACHINERY	406	426	435	442	455	472
51. OFFICE, COMPUTING & ACCT. MACH.	401	441	472	512	559	602
62. INSTRUMENTS & SUPPLIES	367	386	398	414	431	449

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

73. BUSINESS SERVICES	567	584	604	636	665	691
69. WHOLESALE & RETAIL TRADE	520	547	568	591	617	641
57. ELECTRONIC COMPONENTS & ACCESS.	486	514	557	603	645	675
68. UTILITIES	412	426	439	456	475	492
65. TRANSPORTATION & WAREHOUSING	387	403	416	429	442	454
71. REAL ESTATE & RENTAL	347	370	385	401	418	434
56. RADIO, TV, & COMMUNICATION EQ.	336	353	372	384	383	375
38. NONFERROUS METALS	220	226	235	247	258	267

MICHIGAN
SUMMARY
(MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	3,236	3,244	3,285	3,415	3,556	3,690
INDIRECT FROM PURCHASES	4,703	4,801	4,896	5,055	5,178	5,297
INDIRECT FROM PAY	3,603	3,570	3,601	3,667	3,757	3,856
NONDEFENSE	264,776	272,317	282,972	290,794	301,965	312,420
TOTAL	276,317	283,931	294,754	302,931	314,456	325,263

LARGEST SECTORS
(MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	857	854	865	895	925	956
59. MOTOR VEHICLES & EQUIPMENT	505	467	445	459	502	547
13. ORDNANCE & ACCESSORIES	356	368	384	401	423	445
43. ENGINES & TURBINES	240	233	229	227	208	180
60. AIRCRAFT & PARTS	163	164	164	165	164	165
62. INSTRUMENTS & SUPPLIES	145	151	155	163	170	177
65. TRANSPORTATION & WAREHOUSING	127	126	126	130	134	137
56. RADIO, TV, & COMMUNICATION EQ.	86	89	92	99	106	112

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

37. PRIMARY FERROUS METALS	504	506	505	513	508	512
73. BUSINESS SERVICES	437	452	470	494	516	536
41. SCREW MACHINE PROD.&STAMPINGS	348	353	353	366	379	390
59. MOTOR VEHICLES & EQUIPMENT	329	321	319	320	323	326
38. NONFERROUS METALS	287	298	304	312	320	326
47. METALWORKING MACH. & EQ.	265	276	283	290	295	299
42. OTHER FAB. METAL PRODUCTS	195	201	204	215	223	230
69. WHOLESALE & RETAIL TRADE	192	192	195	202	212	220

MINNESOTA

SUMMARY (MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	2,502	2,559	2,624	2,753	2,896	3,023
INDIRECT FROM PURCHASES	2,424	2,501	2,599	2,720	2,826	2,912
INDIRECT FROM PAY	1,863	1,845	1,869	1,917	1,966	2,019
NONDEFENSE	130,987	135,066	141,158	146,033	152,179	157,847
TOTAL	137,777	141,971	148,250	153,422	159,867	165,801

LARGEST SECTORS (MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

13. ORDNANCE & ACCESSORIES	805	801	801	825	859	884
51. OFFICE, COMPUTING & ACCT. MACH.	344	366	388	423	464	498
56. RADIO, TV, & COMMUNICATION EQ.	291	303	320	344	369	391
82. FEDERAL GOVERNMENT WAGES & SALARIES	289	287	291	298	305	313
65. TRANSPORTATION & WAREHOUSING	115	115	116	119	123	127
62. INSTRUMENTS & SUPPLIES	112	117	121	127	133	138
53. ELECTRICAL MACHINERY	78	81	82	83	85	88
77. MISC. SERVICES	57	64	68	71	74	79

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

73. BUSINESS SERVICES	248	257	268	282	296	309
69. WHOLESALE & RETAIL TRADE	147	153	160	169	179	187
51. OFFICE, COMPUTING & ACCT. MACH.	139	153	166	174	179	181
57. ELECTRONIC COMPONENTS & ACCESS.	130	138	152	168	182	192
65. TRANSPORTATION & WAREHOUSING	113	116	120	125	130	134
5. IRON ORE MINING	113	101	96	93	93	96
68. UTILITIES	112	115	119	126	132	138
71. REAL ESTATE & RENTAL	96	101	105	111	118	123

MISSISSIPPI

SUMMARY (MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	2,990	2,944	2,976	3,094	3,216	3,340
INDIRECT FROM PURCHASES	1,645	1,674	1,726	1,806	1,869	1,935
INDIRECT FROM PAY	765	755	759	772	790	809
NONDEFENSE	54,301	55,495	57,050	58,266	60,372	62,280
TOTAL	59,701	60,867	62,510	63,938	66,247	68,363

LARGEST SECTORS (MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

61. OTHER TRANSPORTATION EQ.	1,147	1,087	1,064	1,078	1,110	1,150
82. FEDERAL GOVERNMENT WAGES & SALARIES	955	950	962	989	1,016	1,047
11. NEW CONSTRUCTION	249	259	281	313	335	353
65. TRANSPORTATION & WAREHOUSING	126	126	128	136	144	151
73. BUSINESS SERVICES	59	60	63	69	73	77
31. PET REFINING & REL. PROD.	55	54	54	57	60	63
66. COMMUNICATION EXC. RADIO & TV	49	49	50	53	57	60
68. UTILITIES	48	49	53	58	60	63

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

69. WHOLESALE & RETAIL TRADE	293	295	306	321	332	345
68. UTILITIES	192	191	198	208	215	222
65. TRANSPORTATION & WAREHOUSING	172	172	178	184	187	192
71. REAL ESTATE & RENTAL	100	101	105	110	113	117
73. BUSINESS SERVICES	64	67	69	72	74	77
53. ELECTRICAL MACHINERY	57	62	64	65	67	69
8. CRUDE PETROLEUM & N. GAS	55	53	47	47	50	53
38. NONFERROUS METALS	48	49	51	53	56	58

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PROJECTED DEFENSE PURCHASES DETAIL BY INDUSTRY AND
STATE CALENDAR YEARS 1986 THROUGH 1991(U) WASHINGTON
HEADQUARTERS SERVICES (DOD) DC DIRECTORATE FOR INF.

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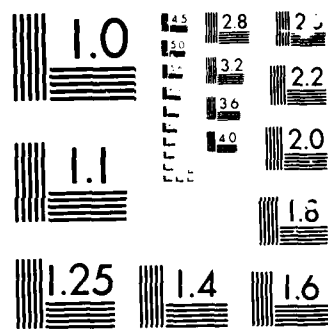
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MISSOURI
SUMMARY
(MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	6,308	6,444	6,622	6,887	7,119	7,342
INDIRECT FROM PURCHASES	3,790	3,883	3,992	4,119	4,200	4,267
INDIRECT FROM PAY	2,105	2,090	2,115	2,162	2,211	2,259
NONDEFENSE	143,567	147,789	153,629	158,072	163,610	168,392
TOTAL	155,769	160,207	166,358	171,241	177,139	182,260

LARGEST SECTORS
(MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

60. AIRCRAFT & PARTS	2,218	2,292	2,374	2,444	2,479	2,519
82. FEDERAL GOVERNMENT WAGES & SALARIES	1,260	1,256	1,272	1,316	1,359	1,405
13. ORDNANCE & ACCESSORIES	909	916	936	976	1,022	1,058
56. RADIO, TV, & COMMUNICATION EQ.	413	432	449	475	504	530
53. ELECTRICAL MACHINERY	277	285	291	299	310	322
65. TRANSPORTATION & WAREHOUSING	254	256	260	270	279	287
11. NEW CONSTRUCTION	123	129	140	158	169	178
73. BUSINESS SERVICES	108	110	112	120	126	132

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

69. WHOLESALE & RETAIL TRADE	391	402	412	423	433	443
68. UTILITIES	321	325	331	341	348	356
65. TRANSPORTATION & WAREHOUSING	319	324	330	336	339	342
73. BUSINESS SERVICES	307	317	328	345	359	372
71. REAL ESTATE & RENTAL	214	220	224	231	236	241
74. EATING & DRINKING PLACES	195	200	203	208	212	216
60. AIRCRAFT & PARTS	161	165	171	170	158	146
13. ORDNANCE & ACCESSORIES	142	133	130	127	117	106

MONTANA

SUMMARY
(MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	274	276	282	295	305	315
INDIRECT FROM PURCHASES	239	243	246	256	266	276
INDIRECT FROM PAY	271	273	277	285	294	303
NONDEFENSE	19,047	19,772	20,045	20,650	21,528	22,275
TOTAL	19,831	20,565	20,849	21,485	22,393	23,169

LARGEST SECTORS
(MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	171	170	172	176	179	184
11. NEW CONSTRUCTION	30	32	34	38	41	43
31. PET REFINING & REL. PROD.	14	14	14	14	15	16
65. TRANSPORTATION & WAREHOUSING	12	13	13	13	13	14
68. UTILITIES	9	10	10	11	11	12
62. INSTRUMENTS & SUPPLIES	7	7	7	8	8	9

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

8. CRUDE PETROLEUM & N. GAS	33	30	28	27	28	30
73. BUSINESS SERVICES	31	33	35	37	39	40
31. PET REFINING & REL. PROD.	22	22	22	23	24	25
38. NONFERROUS METALS	21	22	22	23	23	23
20. LUMBER & WOOD PRODUCTS	13	14	14	15	16	16
1. AGRICULTURAL PRODUCTS	12	13	14	14	15	16
68. UTILITIES	12	12	13	14	14	15
6. NONFERROUS METAL MINING	12	11	11	12	12	12

NEBRASKA

SUMMARY
(MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	721	723	737	761	785	811
INDIRECT FROM PURCHASES	620	647	675	707	733	755
INDIRECT FROM PAY	796	799	816	841	868	895
NONDEFENSE	49,380	51,375	54,159	56,485	59,233	61,578
TOTAL	51,517	53,544	56,387	58,795	61,618	64,038

LARGEST SECTORS
(MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	526	522	528	539	552	567
11. NEW CONSTRUCTION	27	28	31	34	37	39
65. TRANSPORTATION & WAREHOUSING	27	27	27	28	28	29
73. BUSINESS SERVICES	23	24	26	27	28	30
51. OFFICE, COMPUTING & ACCT. MACH.	17	18	19	20	22	24
14. FOOD & KINDRED PRODUCTS	16	16	16	16	17	17
62. INSTRUMENTS & SUPPLIES	14	14	15	16	16	17
68. UTILITIES	12	12	12	13	14	15

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

73. BUSINESS SERVICES	87	91	95	99	103	107
1. AGRICULTURAL PRODUCTS	83	88	94	100	107	112
57. ELECTRONIC COMPONENTS & ACCESS.	46	50	54	56	59	61
38. NONFERROUS METALS	41	43	44	46	47	49
70. FINANCE & INSURANCE	32	33	34	35	37	38
56. RADIO, TV, & COMMUNICATION EQ.	30	32	34	35	35	34
14. FOOD & KINDRED PRODUCTS	27	28	29	29	30	31
68. UTILITIES	18	18	18	19	20	21

NEVADA

SUMMARY
(MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	540	541	552	570	585	602
INDIRECT FROM PURCHASES	299	310	322	337	352	368
INDIRECT FROM PAY	461	470	483	502	524	548
NONDEFENSE	29,957	31,465	32,785	33,914	35,588	37,346
TOTAL	31,256	32,787	34,143	35,323	37,049	38,864

LARGEST SECTORS
(MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	405	401	406	413	420	429
11. NEW CONSTRUCTION	30	32	34	39	42	44
73. BUSINESS SERVICES	19	20	21	22	23	24
72. PERSONAL SERVICES EXC. AUTO.	18	18	19	20	21	21
65. TRANSPORTATION & WAREHOUSING	15	15	16	16	17	17
68. UTILITIES	12	12	13	13	14	15
56. RADIO, TV, & COMMUNICATION EQ.	9	9	9	10	10	11
76. AMUSEMENTS	5	5	6	6	6	6

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

73. BUSINESS SERVICES	60	64	68	72	77	82
6. NONFERROUS METAL MINING	27	26	25	25	26	28
38. NONFERROUS METALS	25	27	28	31	33	35
11. NEW CONSTRUCTION	22	23	22	22	22	23
68. UTILITIES	15	15	16	17	18	18
53. ELECTRICAL MACHINERY	13	15	16	17	18	18
60. AIRCRAFT & PARTS	13	13	12	12	11	10
70. FINANCE & INSURANCE	11	12	13	14	15	16

NEW HAMPSHIRE

SUMMARY
(MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	1,230	1,270	1,315	1,391	1,472	1,546
INDIRECT FROM PURCHASES	928	991	1,049	1,111	1,168	1,215
INDIRECT FROM PAY	392	398	410	425	440	457
NONDEFENSE	30,089	32,024	34,194	35,732	37,605	39,454
TOTAL	32,639	34,683	36,968	38,659	40,685	42,671

LARGEST SECTORS
(MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

56. RADIO, TV. & COMMUNICATION EQ.	469	494	519	555	598	635
82. FEDERAL GOVERNMENT WAGES & SALARIES	429	428	434	450	466	482
60. AIRCRAFT & PARTS	47	47	46	47	48	49
51. OFFICE, COMPUTING & ACCT. MACH.	42	45	47	52	57	61
62. INSTRUMENTS & SUPPLIES	33	34	35	37	39	40
63. OPTICAL, OPHTHALMIC & PHOTO EQ.	28	31	36	41	45	48
65. TRANSPORTATION & WAREHOUSING	26	27	28	30	31	33
13. ORDNANCE & ACCESSORIES	23	24	25	26	27	28

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

57. ELECTRONIC COMPONENTS & ACCESS.	133	146	160	174	187	199
69. WHOLESALE & RETAIL TRADE	65	68	72	78	83	87
53. ELECTRICAL MACHINERY	53	58	63	66	68	70
56. RADIO, TV. & COMMUNICATION EQ.	52	57	60	61	61	60
38. NONFERROUS METALS	50	53	55	58	61	64
73. BUSINESS SERVICES	48	52	55	59	63	66
68. UTILITIES	47	49	51	55	58	61
65. TRANSPORTATION & WAREHOUSING	42	44	47	50	52	54

NEW JERSEY

SUMMARY (MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	5,328	5,459	5,612	5,893	6,173	6,440
INDIRECT FROM PURCHASES	4,816	5,015	5,219	5,466	5,678	5,860
INDIRECT FROM PAY	3,425	3,409	3,454	3,546	3,646	3,752
NONDEFENSE	237,580	245,242	255,051	263,210	274,113	284,270
TOTAL	251,150	259,125	269,336	278,114	289,610	300,323

LARGEST SECTORS (MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	1,573	1,570	1,591	1,653	1,714	1,777
56. RADIO, TV, & COMMUNICATION EQ.	1,483	1,543	1,605	1,699	1,805	1,900
62. INSTRUMENTS & SUPPLIES	366	381	392	414	434	452
65. TRANSPORTATION & WAREHOUSING	234	234	237	244	252	259
53. ELECTRICAL MACHINERY	209	217	220	224	231	239
27. CHEMICALS & PRODUCTS	171	175	181	194	204	212
73. BUSINESS SERVICES	154	165	171	180	188	198
60. AIRCRAFT & PARTS	128	128	127	129	129	130

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

73. BUSINESS SERVICES	698	730	758	799	837	872
27. CHEMICALS & PRODUCTS	327	342	360	381	396	409
69. WHOLESALE & RETAIL TRADE	295	309	322	339	355	369
38. NONFERROUS METALS	254	263	271	280	288	294
68. UTILITIES	249	255	264	277	289	300
57. ELECTRONIC COMPONENTS & ACCESS.	240	249	265	284	300	313
65. TRANSPORTATION & WAREHOUSING	231	238	246	256	264	270
56. RADIO, TV, & COMMUNICATION EQ.	215	218	223	226	223	216

NEW MEXICO

SUMMARY (MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	1,352	1,374	1,408	1,468	1,524	1,582
INDIRECT FROM PURCHASES	731	745	761	793	824	851
INDIRECT FROM PAY	483	480	487	502	520	537
NONDEFENSE	37,086	38,004	38,878	40,030	41,916	43,495
TOTAL	39,652	40,604	41,534	42,793	44,784	46,465

LARGEST SECTORS (MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	812	807	817	840	863	889
11. NEW CONSTRUCTION	93	97	105	118	126	132
73. BUSINESS SERVICES	86	94	99	103	108	114
56. RADIO, TV, & COMMUNICATION EQ.	55	58	60	62	65	67
68. UTILITIES	52	53	54	58	61	64
62. INSTRUMENTS & SUPPLIES	40	42	44	47	50	53
31. PET REFINING & REL. PROD.	32	32	32	33	35	37
65. TRANSPORTATION & WAREHOUSING	24	24	24	25	26	27

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

8. CRUDE PETROLEUM & N. GAS	104	100	94	93	98	105
73. BUSINESS SERVICES	93	98	102	108	115	120
68. UTILITIES	66	67	69	72	75	77
6. NONFERROUS METAL MINING	60	59	61	64	65	67
56. RADIO, TV, & COMMUNICATION EQ.	44	46	48	51	51	51
69. WHOLESALE & RETAIL TRADE	42	44	47	50	52	54
65. TRANSPORTATION & WAREHOUSING	33	34	36	37	39	40
11. NEW CONSTRUCTION	31	32	31	31	33	34

NEW YORK
SUMMARY
(MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	10,902	11,191	11,513	12,057	12,608	13,125
INDIRECT FROM PURCHASES	9,749	10,117	10,503	10,952	11,326	11,631
INDIRECT FROM PAY	7,563	7,497	7,570	7,757	7,949	8,146
NONDEFENSE	496,670	510,973	529,802	545,989	566,526	584,774
TOTAL	524,885	539,779	559,388	576,755	598,409	617,676

LARGEST SECTORS
(MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

56. RADIO, TV, & COMMUNICATION EQ.	3,010	3,126	3,269	3,476	3,708	3,899
60. AIRCRAFT & PARTS	2,042	2,055	2,074	2,118	2,156	2,200
82. FEDERAL GOVERNMENT WAGES & SALARIES	1,368	1,361	1,378	1,419	1,461	1,506
65. TRANSPORTATION & WAREHOUSING	484	484	489	507	525	540
53. ELECTRICAL MACHINERY	442	457	465	475	490	508
62. INSTRUMENTS & SUPPLIES	359	374	383	401	418	435
40. FAB. STRUCTURAL METAL PRODUCTS	337	345	359	378	391	410
77. MISC. SERVICES	311	339	354	372	391	412

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

73. BUSINESS SERVICES	1,681	1,752	1,823	1,923	2,014	2,097
57. ELECTRONIC COMPONENTS & ACCESS.	787	822	884	944	995	1,030
69. WHOLESALE & RETAIL TRADE	725	755	784	821	859	892
65. TRANSPORTATION & WAREHOUSING	554	568	585	606	624	639
68. UTILITIES	548	560	578	604	629	652
70. FINANCE & INSURANCE	473	493	513	537	562	586
71. REAL ESTATE & RENTAL	428	448	464	486	508	527
38. NONFERROUS METALS	330	338	346	355	361	365

NORTH CAROLINA

SUMMARY (MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	3,993	4,007	4,085	4,217	4,349	4,493
INDIRECT FROM PURCHASES	2,816	2,970	3,117	3,281	3,419	3,541
INDIRECT FROM PAY	3,004	2,991	3,031	3,109	3,193	3,281
NONDEFENSE	199,437	206,859	215,335	222,087	230,981	238,961
TOTAL	209,250	216,827	225,569	232,693	241,943	250,276

LARGEST SECTORS (MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	2,868	2,845	2,877	2,927	2,988	3,066
56. RADIO, TV, & COMMUNICATION EQ.	234	244	253	272	292	310
11. NEW CONSTRUCTION	151	159	174	197	212	223
65. TRANSPORTATION & WAREHOUSING	106	106	106	109	112	115
77. MISC. SERVICES	62	67	70	74	78	82
73. BUSINESS SERVICES	59	64	67	71	75	79
68. UTILITIES	53	54	56	61	63	66
49. GENERAL INDUSTRY MACHINERY	36	37	39	41	44	46

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

73. BUSINESS SERVICES	249	261	272	287	300	313
57. ELECTRONIC COMPONENTS & ACCESS.	186	206	223	239	256	272
16. FABRIC, YARN & THREAD MILLS	179	182	186	191	196	201
28. PLASTICS & SYNTHETIC MATLS.	166	176	185	198	210	222
38. NONFERROUS METALS	151	158	165	173	181	187
56. RADIO, TV, & COMMUNICATION EQ.	140	155	166	171	173	174
53. ELECTRICAL MACHINERY	136	151	158	162	168	173
32. RUBBER & MISC. PLASTICS PROD.	110	118	128	140	151	162

NORTH DAKOTA

SUMMARY (MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	385	386	394	408	421	436
INDIRECT FROM PURCHASES	170	174	181	188	195	203
INDIRECT FROM PAY	253	256	264	273	283	293
NONDEFENSE	16,689	17,531	18,533	19,242	20,128	20,988
TOTAL	17,497	18,347	19,372	20,112	21,028	21,920

LARGEST SECTORS (MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	281	279	282	288	294	303
11. NEW CONSTRUCTION	25	27	30	33	36	38
68. UTILITIES	20	20	20	22	23	24
65. TRANSPORTATION & WAREHOUSING	10	10	10	10	11	11
77. MISC. SERVICES	10	10	10	11	11	12
59. MOTOR VEHICLES & EQUIPMENT	8	7	7	7	8	8
73. BUSINESS SERVICES	7	8	8	9	9	10

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

8. CRUDE PETROLEUM & N. GAS	27	25	24	24	26	27
73. BUSINESS SERVICES	19	21	22	23	23	24
68. UTILITIES	19	19	20	21	22	22
1. AGRICULTURAL PRODUCTS	18	20	22	24	26	27
69. WHOLESALE & RETAIL TRADE	8	9	9	10	11	11
70. FINANCE & INSURANCE	8	9	9	9	10	10
60. AIRCRAFT & PARTS	7	7	7	6	6	5
65. TRANSPORTATION & WAREHOUSING	7	7	7	8	8	8

OHIO

SUMMARY
(MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	6,728	6,862	6,993	7,245	7,498	7,761
INDIRECT FROM PURCHASES	7,235	7,406	7,623	7,873	8,053	8,217
INDIRECT FROM PAY	4,339	4,320	4,354	4,427	4,513	4,609
NONDEFENSE	319,053	328,652	340,745	348,733	360,106	370,632
TOTAL	337,355	347,240	359,715	368,278	380,170	391,220

LARGEST SECTORS
(MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	1,796	1,793	1,818	1,890	1,961	2,033
60. AIRCRAFT & PARTS	1,584	1,605	1,616	1,629	1,631	1,646
77. MISC. SERVICES	559	635	675	705	739	781
59. MOTOR VEHICLES & EQUIPMENT	396	367	349	360	394	429
13. ORDNANCE & ACCESSORIES	272	272	279	289	300	310
65. TRANSPORTATION & WAREHOUSING	232	234	236	243	250	256
56. RADIO, TV, & COMMUNICATION EQ.	219	228	238	253	270	285
47. METALWORKING MACH. & EQ.	211	218	220	227	231	233

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

37. PRIMARY FERROUS METALS	874	867	884	905	906	918
73. BUSINESS SERVICES	565	591	611	638	661	683
38. NONFERROUS METALS	411	421	441	456	472	485
60. AIRCRAFT & PARTS	375	371	370	354	326	300
69. WHOLESALE & RETAIL TRADE	328	337	345	358	371	384
32. RUBBER & MISC. PLASTICS PROD.	293	307	319	336	354	369
27. CHEMICALS & PRODUCTS	292	304	317	334	346	355
68. UTILITIES	286	291	299	310	320	330

OKLAHOMA

SUMMARY (MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	2,210	2,217	2,257	2,353	2,443	2,532
INDIRECT FROM PURCHASES	1,826	1,819	1,849	1,915	1,995	2,066
INDIRECT FROM PAY	1,193	1,174	1,184	1,209	1,246	1,288
NONDEFENSE	95,080	95,917	98,825	101,339	105,782	110,108
TOTAL	100,309	101,127	104,115	106,816	111,466	115,995

LARGEST SECTORS (MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	1,627	1,621	1,642	1,696	1,751	1,810
11. NEW CONSTRUCTION	99	104	113	128	137	145
60. AIRCRAFT & PARTS	69	69	68	69	69	70
31. PET REFINING & REL. PROD.	56	56	55	58	61	63
65. TRANSPORTATION & WAREHOUSING	54	54	54	55	57	58
56. RADIO, TV, & COMMUNICATION EQ.	50	51	53	58	63	67
68. UTILITIES	48	49	50	54	57	59
73. BUSINESS SERVICES	32	33	34	37	39	41

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

8. CRUDE PETROLEUM & N. GAS	509	455	427	422	442	461
73. BUSINESS SERVICES	157	165	170	179	188	198
60. AIRCRAFT & PARTS	143	149	151	152	148	142
31. PET REFINING & REL. PROD.	127	131	135	142	150	158
68. UTILITIES	63	63	65	69	72	74
11. NEW CONSTRUCTION	56	53	56	58	60	60
56. RADIO, TV, & COMMUNICATION EQ.	53	55	56	56	55	53
70. FINANCE & INSURANCE	42	44	46	49	52	55

OREGON

SUMMARY
(MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	799	808	826	861	892	925
INDIRECT FROM PURCHASES	1,131	1,185	1,236	1,296	1,354	1,411
INDIRECT FROM PAY	954	955	963	985	1,011	1,043
NONDEFENSE	68,125	70,929	73,380	75,233	77,998	81,309
TOTAL	71,009	73,877	76,405	78,374	81,256	84,687

LARGEST SECTORS
(MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	356	354	358	366	374	383
53. ELECTRICAL MACHINERY	133	136	138	142	148	154
11. NEW CONSTRUCTION	52	54	58	65	69	73
61. OTHER TRANSPORTATION EQ.	51	50	50	54	55	57
65. TRANSPORTATION & WAREHOUSING	42	43	43	43	44	45
73. BUSINESS SERVICES	20	21	23	24	25	26
51. OFFICE, COMPUTING & ACCT. MACH.	14	15	15	17	19	20
77. MISC. SERVICES	12	14	15	16	16	17

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

73. BUSINESS SERVICES	132	138	143	149	155	161
57. ELECTRONIC COMPONENTS & ACCESS.	119	127	132	139	151	161
53. ELECTRICAL MACHINERY	106	118	131	139	148	155
20. LUMBER & WOOD PRODUCTS	92	96	100	106	111	115
38. NONFERROUS METALS	84	88	92	97	103	109
37. PRIMARY FERROUS METALS	73	74	77	81	83	87
70. FINANCE & INSURANCE	39	41	43	46	48	51
69. WHOLESALE & RETAIL TRADE	34	35	36	38	40	42

PENNSYLVANIA

SUMMARY
(MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	7,267	7,421	7,603	7,964	8,321	8,657
INDIRECT FROM PURCHASES	7,035	7,212	7,432	7,729	7,945	8,128
INDIRECT FROM PAY	4,656	4,627	4,680	4,785	4,897	5,016
NONDEFENSE	330,531	340,479	353,409	363,000	375,837	387,453
TOTAL	349,489	359,739	373,125	383,477	396,999	409,255

LARGEST SECTORS
(MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	2,368	2,366	2,399	2,501	2,600	2,700
13. ORDNANCE & ACCESSORIES	700	720	744	776	821	858
27. CHEMICALS & PRODUCTS	474	485	503	538	568	590
56. RADIO, TV, & COMMUNICATION EQ.	411	426	443	473	506	534
60. AIRCRAFT & PARTS	365	371	371	373	373	374
53. ELECTRICAL MACHINERY	356	364	368	377	390	404
40. FAB. STRUCTURAL METAL PRODUCTS	344	352	366	385	398	418
77. MISC. SERVICES	303	337	356	372	391	412

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

37. PRIMARY FERROUS METALS	954	935	929	949	947	956
73. BUSINESS SERVICES	710	738	765	803	839	872
57. ELECTRONIC COMPONENTS & ACCESS.	371	382	404	432	456	472
69. WHOLESALE & RETAIL TRADE	335	348	361	378	394	408
68. UTILITIES	329	335	346	363	377	389
38. NONFERROUS METALS	306	313	321	330	341	348
65. TRANSPORTATION & WAREHOUSING	300	306	315	327	335	341
31. PET REFINING & REL. PROD.	233	231	236	245	252	259

RHODE ISLAND

SUMMARY (MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	724	739	758	790	823	856
INDIRECT FROM PURCHASES	625	653	679	711	738	761
INDIRECT FROM PAY	399	397	401	412	424	435
NONDEFENSE	27,415	28,328	29,473	30,421	31,634	32,679
TOTAL	29,163	30,117	31,311	32,335	33,619	34,731

LARGEST SECTORS (MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	353	351	356	366	377	389
56. RADIO, TV, & COMMUNICATION EQ.	147	155	162	170	180	189
49. GENERAL INDUSTRY MACHINERY	30	32	34	36	38	40
73. BUSINESS SERVICES	26	27	28	30	31	33
62. INSTRUMENTS & SUPPLIES	16	17	17	18	18	19
11. NEW CONSTRUCTION	16	17	18	20	21	22
65. TRANSPORTATION & WAREHOUSING	16	16	16	17	17	18
61. OTHER TRANSPORTATION EQ.	14	14	14	15	16	16

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

38. NONFERROUS METALS	111	116	121	127	132	137
73. BUSINESS SERVICES	55	57	60	63	66	68
57. ELECTRONIC COMPONENTS & ACCESS.	34	37	39	41	44	46
69. WHOLESALE & RETAIL TRADE	32	34	35	37	39	40
42. OTHER FAB. METAL PRODUCTS	31	33	34	35	37	38
37. PRIMARY FERROUS METALS	24	23	24	25	26	27
68. UTILITIES	24	24	25	27	28	29
32. RUBBER & MISC. PLASTICS PROD.	23	24	24	26	27	28

SOUTH CAROLINA

SUMMARY (MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	2,991	2,993	3,047	3,158	3,261	3,370
INDIRECT FROM PURCHASES	1,850	1,927	2,011	2,123	2,218	2,303
INDIRECT FROM PAY	1,413	1,410	1,429	1,470	1,513	1,559
NONDEFENSE	99,744	102,608	105,950	109,248	113,653	117,611
TOTAL	105,998	108,937	112,437	115,999	120,645	124,843

LARGEST SECTORS (MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	2,223	2,209	2,235	2,287	2,344	2,412
11. NEW CONSTRUCTION	252	258	271	297	316	331
61. OTHER TRANSPORTATION EQ.	75	74	76	81	83	87
65. TRANSPORTATION & WAREHOUSING	66	66	67	69	72	74
62. INSTRUMENTS & SUPPLIES	58	60	62	66	70	73
68. UTILITIES	41	42	44	47	49	52
13. ORDNANCE & ACCESSORIES	32	32	33	35	37	39
73. BUSINESS SERVICES	26	27	29	31	33	35

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

28. PLASTICS & SYNTHETIC MATLS.	233	247	260	277	294	310
27. CHEMICALS & PRODUCTS	164	172	180	191	199	206
73. BUSINESS SERVICES	138	144	150	157	165	171
16. FABRIC, YARN & THREAD MILLS	129	131	134	138	142	146
57. ELECTRONIC COMPONENTS & ACCESS.	124	134	146	160	172	184
38. NONFERROUS METALS	98	102	105	110	114	118
11. NEW CONSTRUCTION	82	80	78	80	80	80
32. RUBBER & MISC. PLASTICS PROD.	70	74	78	83	88	93

SOUTH DAKOTA

SUMMARY (MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	259	260	266	276	285	295
INDIRECT FROM PURCHASES	195	204	216	227	237	247
INDIRECT FROM PAY	311	313	320	330	341	351
NONDEFENSE	19,074	20,071	21,187	22,104	23,204	24,105
TOTAL	19,839	20,848	21,988	22,938	24,068	24,998

LARGEST SECTORS (MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	180	179	181	184	188	193
11. NEW CONSTRUCTION	24	26	28	32	34	36
65. TRANSPORTATION & WAREHOUSING	12	12	12	12	12	12
68. UTILITIES	10	10	10	11	12	12

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

1. AGRICULTURAL PRODUCTS	43	45	48	51	55	57
6. NONFERROUS METAL MINING	22	21	22	22	23	24
73. BUSINESS SERVICES	16	17	18	19	19	20
57. ELECTRONIC COMPONENTS & ACCESS.	14	15	17	19	21	23
68. UTILITIES	11	11	11	12	12	13
70. FINANCE & INSURANCE	9	9	9	10	10	10
14. FOOD & KINDRED PRODUCTS	8	8	9	9	9	9
69. WHOLESALE & RETAIL TRADE	7	7	8	9	9	9

TENNESSEE
SUMMARY
(MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	2,161	2,193	2,244	2,345	2,440	2,526
INDIRECT FROM PURCHASES	2,447	2,519	2,586	2,690	2,779	2,858
INDIRECT FROM PAY	1,933	1,912	1,921	1,957	2,003	2,053
NONDEFENSE	131,509	135,023	139,341	142,603	147,976	153,125
TOTAL	138,050	141,648	146,092	149,595	155,198	160,562

LARGEST SECTORS
(MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	813	807	816	834	852	873
27. CHEMICALS & PRODUCTS	421	429	443	475	501	520
73. BUSINESS SERVICES	178	193	201	210	220	231
13. ORDNANCE & ACCESSORIES	145	144	146	153	162	168
65. TRANSPORTATION & WAREHOUSING	107	107	107	110	113	116
11. NEW CONSTRUCTION	88	92	100	111	119	126
77. MISC. SERVICES	65	68	70	74	78	82
68. UTILITIES	42	43	44	47	49	51

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

27. CHEMICALS & PRODUCTS	223	227	232	241	249	254
73. BUSINESS SERVICES	213	222	230	241	251	261
38. NONFERROUS METALS	160	165	169	176	184	189
28. PLASTICS & SYNTHETIC MATLS.	157	163	167	176	184	193
68. UTILITIES	123	124	128	135	140	145
65. TRANSPORTATION & WAREHOUSING	88	90	93	97	100	101
56. RADIO, TV, & COMMUNICATION EQ.	87	94	96	97	96	95
69. WHOLESALE & RETAIL TRADE	82	85	88	93	97	100

TEXAS

SUMMARY (MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	15,225	15,418	15,688	16,290	16,911	17,512
INDIRECT FROM PURCHASES	11,846	11,956	12,191	12,626	13,096	13,499
INDIRECT FROM PAY	7,088	6,991	7,067	7,248	7,463	7,687
NONDEFENSE	551,758	559,987	574,549	589,404	612,854	633,893
TOTAL	585,917	594,353	609,495	625,567	650,324	672,590

LARGEST SECTORS (MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	6,178	6,140	6,214	6,375	6,542	6,727
60. AIRCRAFT & PARTS	2,390	2,405	2,396	2,419	2,453	2,486
56. RADIO, TV, & COMMUNICATION EQ.	1,495	1,567	1,635	1,747	1,879	1,994
31. PET REFINING & REL. PROD.	1,064	1,057	1,045	1,089	1,141	1,188
65. TRANSPORTATION & WAREHOUSING	552	551	554	574	594	611
73. BUSINESS SERVICES	450	489	511	536	561	590
13. ORDNANCE & ACCESSORIES	395	387	386	392	408	418
11. NEW CONSTRUCTION	394	412	448	504	541	570

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

8. CRUDE PETROLEUM & N. GAS	1,983	1,781	1,692	1,686	1,768	1,841
73. BUSINESS SERVICES	1,254	1,307	1,368	1,448	1,523	1,595
31. PET REFINING & REL. PROD.	1,032	1,039	1,048	1,073	1,099	1,124
68. UTILITIES	613	621	636	665	689	710
69. WHOLESALE & RETAIL TRADE	571	593	615	644	670	693
27. CHEMICALS & PRODUCTS	545	565	590	621	644	663
65. TRANSPORTATION & WAREHOUSING	529	538	551	569	583	593
57. ELECTRONIC COMPONENTS & ACCESS.	453	486	516	548	587	620

UTAH
SUMMARY
(MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	1,576	1,605	1,642	1,727	1,810	1,889
INDIRECT FROM PURCHASES	986	1,011	1,036	1,066	1,087	1,104
INDIRECT FROM PAY	578	574	583	602	623	646
NONDEFENSE	43,951	45,258	46,808	48,437	50,694	52,858
TOTAL	47,091	48,448	50,068	51,832	54,215	56,497

LARGEST SECTORS
(MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	899	900	913	956	999	1,040
62. INSTRUMENTS & SUPPLIES	114	118	122	128	135	140
56. RADIO, TV, & COMMUNICATION EQ.	56	58	61	66	71	76
77. MISC. SERVICES	45	51	54	57	59	63
31. PET REFINING & REL. PROD.	44	44	44	46	48	50
27. CHEMICALS & PRODUCTS	44	45	47	50	53	54
65. TRANSPORTATION & WAREHOUSING	40	40	41	42	44	46
51. OFFICE, COMPUTING & ACCT. MACH.	39	43	46	50	55	59

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

60. AIRCRAFT & PARTS	185	185	183	175	161	148
73. BUSINESS SERVICES	80	84	88	93	98	103
68. UTILITIES	66	67	69	72	75	78
69. WHOLESALE & RETAIL TRADE	55	58	61	64	67	69
65. TRANSPORTATION & WAREHOUSING	48	49	51	53	54	56
38. NONFERROUS METALS	40	42	43	45	48	50
71. REAL ESTATE & RENTAL	38	40	41	43	45	47
37. PRIMARY FERROUS METALS	38	38	38	41	42	44

VERMONT

SUMMARY
(MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	326	340	346	363	381	396
INDIRECT FROM PURCHASES	406	434	456	477	497	513
INDIRECT FROM PAY	197	197	199	203	208	213
NONDEFENSE	14,125	14,769	15,490	15,996	16,658	17,304
TOTAL	15,053	15,740	16,491	17,039	17,743	18,426

LARGEST SECTORS
(MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

13. ORDNANCE & ACCESSORIES	155	165	168	178	189	197
82. FEDERAL GOVERNMENT WAGES & SALARIES	61	61	61	63	64	66
62. INSTRUMENTS & SUPPLIES	27	28	29	31	33	35
47. METALWORKING MACH. & EQ.	14	14	14	15	15	15
77. MISC. SERVICES	12	13	13	14	14	15
65. TRANSPORTATION & WAREHOUSING	11	11	11	12	12	12
53. ELECTRICAL MACHINERY	10	11	11	11	12	12
60. AIRCRAFT & PARTS	7	7	7	7	7	7

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

57. ELECTRONIC COMPONENTS & ACCESS.	128	141	153	163	176	187
60. AIRCRAFT & PARTS	38	39	39	37	35	33
13. ORDNANCE & ACCESSORIES	24	26	25	26	25	23
73. BUSINESS SERVICES	19	20	21	22	23	24
38. NONFERROUS METALS	17	18	19	20	21	22
69. WHOLESALE & RETAIL TRADE	15	15	15	16	17	18
47. METALWORKING MACH. & EQ.	14	16	18	19	20	21
9. STONE&CLAY MINING & QUARRYING	14	14	15	16	16	17

VIRGINIA

SUMMARY
(MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	14,051	14,219	14,613	15,232	15,818	16,440
INDIRECT FROM PURCHASES	4,046	4,184	4,355	4,577	4,757	4,925
INDIRECT FROM PAY	2,337	2,324	2,359	2,426	2,492	2,560
NONDEFENSE	162,268	167,085	173,568	179,086	185,730	191,341
TOTAL	182,702	187,812	194,895	201,321	208,798	215,266

LARGEST SECTORS
(MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	8,097	8,063	8,165	8,417	8,680	8,969
61. OTHER TRANSPORTATION EQ.	2,083	2,096	2,195	2,283	2,335	2,420
56. RADIO, TV, & COMMUNICATION EQ.	1,038	1,076	1,128	1,208	1,290	1,355
73. BUSINESS SERVICES	717	764	791	831	871	912
77. MISC. SERVICES	361	394	413	434	457	481
65. TRANSPORTATION & WAREHOUSING	279	279	286	303	322	338
11. NEW CONSTRUCTION	259	272	298	337	362	382
51. OFFICE, COMPUTING & ACCT. MACH.	258	283	311	337	367	394

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

69. WHOLESALE & RETAIL TRADE	614	630	657	692	723	756
73. BUSINESS SERVICES	438	462	487	516	545	571
68. UTILITIES	406	412	428	450	470	490
65. TRANSPORTATION & WAREHOUSING	403	410	426	444	459	474
71. REAL ESTATE & RENTAL	329	344	358	378	396	414
28. PLASTICS & SYNTHETIC MATLS.	189	198	206	217	227	238
74. EATING & DRINKING PLACES	121	126	132	140	147	155
66. COMMUNICATION EXC. RADIO & TV	119	126	134	143	152	161

WASHINGTON

SUMMARY (MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	6,540	6,726	6,919	7,169	7,397	7,677
INDIRECT FROM PURCHASES	3,389	3,513	3,641	3,739	3,779	3,814
INDIRECT FROM PAY	1,544	1,528	1,556	1,595	1,637	1,683
NONDEFENSE	109,355	112,101	117,380	120,930	125,890	130,240
TOTAL	120,828	123,868	129,496	133,432	138,702	143,414

LARGEST SECTORS (MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	2,510	2,496	2,527	2,598	2,671	2,751
61. OTHER TRANSPORTATION EQ.	813	824	864	910	929	972
60. AIRCRAFT & PARTS	673	685	682	680	672	673
13. ORDNANCE & ACCESSORIES	527	552	567	585	611	642
56. RADIO, TV, & COMMUNICATION EQ.	372	417	441	459	480	508
11. NEW CONSTRUCTION	233	245	267	300	321	337
53. ELECTRICAL MACHINERY	223	243	255	261	271	283
73. BUSINESS SERVICES	168	179	187	197	207	217

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

60. AIRCRAFT & PARTS	675	692	707	697	653	609
69. WHOLESALE & RETAIL TRADE	327	345	359	370	381	394
13. ORDNANCE & ACCESSORIES	268	263	271	280	276	260
73. BUSINESS SERVICES	241	249	260	271	281	291
68. UTILITIES	234	242	250	258	265	274
65. TRANSPORTATION & WAREHOUSING	228	237	245	251	256	262
71. REAL ESTATE & RENTAL	174	186	193	199	204	211
38. NONFERROUS METALS	167	166	167	171	175	178

WEST VIRGINIA

SUMMARY (MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	414	421	433	455	474	491
INDIRECT FROM PURCHASES	1,022	1,056	1,094	1,152	1,202	1,250
INDIRECT FROM PAY	554	556	565	580	598	617
NONDEFENSE	43,514	45,438	47,172	48,605	50,664	52,673
TOTAL	45,504	47,471	49,263	50,793	52,937	55,031

LARGEST SECTORS (MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	162	161	163	167	171	175
27. CHEMICALS & PRODUCTS	88	89	92	99	105	109
11. NEW CONSTRUCTION	33	35	38	42	45	47
65. TRANSPORTATION & WAREHOUSING	24	24	24	25	26	27
61. OTHER TRANSPORTATION EQ.	15	15	16	17	18	19
32. RUBBER & MISC. PLASTICS PROD.	12	12	13	13	14	15
60. AIRCRAFT & PARTS	7	7	7	8	8	8
71. REAL ESTATE & RENTAL	5	5	6	6	6	7

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

7. COAL MINING	251	261	275	293	308	322
27. CHEMICALS & PRODUCTS	134	141	149	159	166	172
37. PRIMARY FERROUS METALS	125	123	122	125	125	127
38. NONFERROUS METALS	94	97	99	103	106	109
8. CRUDE PETROLEUM & N. GAS	52	52	50	51	56	62
73. BUSINESS SERVICES	46	49	51	54	56	59
28. PLASTICS & SYNTHETIC MATLS.	44	47	50	54	58	61
68. UTILITIES	25	25	26	28	29	30

WISCONSIN
SUMMARY
(MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	1,725	1,723	1,740	1,808	1,881	1,958
INDIRECT FROM PURCHASES	2,575	2,665	2,734	2,830	2,909	2,982
INDIRECT FROM PAY	2,106	2,097	2,111	2,146	2,191	2,242
NONDEFENSE	144,929	150,270	155,725	159,487	165,150	170,469
TOTAL	151,336	156,755	162,309	166,271	172,131	177,651

LARGEST SECTORS
(MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	350	347	351	359	368	377
61. OTHER TRANSPORTATION EQ.	321	317	322	334	339	350
59. MOTOR VEHICLES & EQUIPMENT	208	192	183	189	207	225
47. METALWORKING MACH. & EQ.	97	101	102	105	107	108
65. TRANSPORTATION & WAREHOUSING	95	96	97	100	103	107
62. INSTRUMENTS & SUPPLIES	80	82	84	90	94	98
53. ELECTRICAL MACHINERY	74	75	75	77	80	83
51. OFFICE, COMPUTING & ACCT. MACH.	71	75	80	86	94	101

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

37. PRIMARY FERROUS METALS	274	282	287	293	292	294
73. BUSINESS SERVICES	224	233	242	254	266	277
53. ELECTRICAL MACHINERY	200	212	218	225	229	232
38. NONFERROUS METALS	142	151	157	162	167	171
24. PAPER & ALLIED PRODUCTS	129	136	142	149	156	163
69. WHOLESALE & RETAIL TRADE	117	117	119	124	130	136
43. ENGINES & TURBINES	107	110	112	113	112	109
32. RUBBER & MISC. PLASTICS PROD.	88	95	102	110	118	125

WYOMING
SUMMARY
(MILLIONS OF 1985 DOLLARS)

	1986	1987	1988	1989	1990	1991
DEFENSE						
DIRECT	198	197	201	208	215	222
INDIRECT FROM PURCHASES	408	404	408	419	441	463
INDIRECT FROM PAY	223	223	229	237	249	261
NONDEFENSE	18,591	18,895	19,505	20,030	21,055	22,021
TOTAL	19,419	19,719	20,342	20,894	21,961	22,967

LARGEST SECTORS
(MILLIONS OF 1985 DOLLARS)

DIRECT DEFENSE

82. FEDERAL GOVERNMENT WAGES & SALARIES	138	137	138	141	144	148
31. PET REFINING & REL. PROD.	17	17	17	18	19	19
65. TRANSPORTATION & WAREHOUSING	10	10	10	10	11	11
11. NEW CONSTRUCTION	9	10	11	12	13	14

INDIRECT DEFENSE EXPENDITURES RESULTING FROM DIRECT PURCHASES

8. CRUDE PETROLEUM & N. GAS	221	211	204	204	217	231
7. COAL MINING	24	24	26	27	27	27
31. PET REFINING & REL. PROD.	23	24	25	26	27	28
73. BUSINESS SERVICES	23	24	25	26	28	29
6. NONFERROUS METAL MINING	21	21	22	24	24	25
10. CHEM&FERTILIZER MIN. MINING	15	16	18	19	20	21
1. AGRICULTURAL PRODUCTS	14	15	17	19	22	24
11. NEW CONSTRUCTION	11	11	11	11	11	11

FEEDBACK FORM

1. Did this publication provide the material you needed to interpret the projections in which you were interested? If not, what were the most important missing items?

2. Did the projections for your industry or state seem to be reasonable?

3. Are there other published forecasts with which the projections for your industry or state can be compared?

4. What parts of the projections were most and least useful to you?

MOST

LEAST

_____	Projected direct defense purchases for an industry	_____
_____	Projected indirect defense purchases for an industry	_____
_____	Projected direct defense expenditures for a state	_____
_____	Projected indirect defense expenditures for a state	_____
_____	Projected largest sectors	_____
_____	Projected geographic distribution of direct purchases	_____
_____	Projected geographic distribution of indirect purchases	_____
_____	Other: _____	_____

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